



NO. S1700E01

June 27, 2000

SERVICE MANUAL

i70A

Vision Master™ Pro 411

A705MT

Vision Master™ 405

S705MT

[Revision Record]

Rev.	Section	Contents

CONTENTS

	Page
SAFETY PRECAUTION.....	i-ii
1. SET-UP ADJUSTMENTS.....	1-12
2. TIMING CHART.....	13
3. IC APPLICATION.....	14-15
4. CIRCUIT DESCRIPTION.....	16-24
5. SERVICE PARTS LIST.....	25-40
6. EXPLODED VIEW.....	41-46
7. DIAGRAMS.....	47-50

NOTICE

The information in this document is subject to change without notice.

SAFETY PRECAUTION

1. The design of this product contains special hardware, many circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Service should be performed by qualified personnel only.
2. Alterations of the design or circuitry of the products should not be made. Any design alterations or additions will void the manufacturer's warranty and will further relieve the manufacturer of responsibility for personal injury or property damage resulting therefrom.
3. Many electrical and mechanical parts in the products have special safety-related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in the parts list of Service manual. Electrical components having such features are identified by mark "!" on the schematics and ! on the parts list in Service manual. The use of a substitute replacement which does not have the same safety characteristics as the recommended replacement part shown in the parts list of Service manual may create shock, fire, or other hazards.
4. Use isolation transformer.
The chassis and any sub-chassis contained in some products are connected to the primary circuit of the AC power line. An isolation transformer of adequate capacity should be inserted between the product and the AC power supply point while performing any service on some products when the primary circuit of the AC power supply is exposed.
5. The high voltage applied to the picture tube must conform with that specified in Service manual. Excessive high voltage conditions should be kept to a minimum, or should be prevented. If severe arcing occurs, remove the AC power immediately and determine the cause by visual inspection (incorrect installation, cracked or melted high voltage harness, poor soldering, etc.) To maintain the proper minimum level of soft X-ray emission, components in the high voltage circuitry including the picture tube must be the exact replacements or alternatives approved by the manufacturer of the complete product.

6. Isolation Check

(Safety for Electrical Shock Hazard)

After reassembling the product always perform an isolation check on the exposed metal parts of the cabinet (video input and output terminals, control knobs, screwheads, control shafts, etc.) to be sure the product is safe to operate without danger of electrical shock.

(1) Dielectric Strength Test

The isolation between the AC primary circuit and all metal parts exposed to the user, particularly any exposed metal part having a return path to the chassis should withstand a voltage of 1,500V AC(r.m.s.), 20mA(current sensitivity) for a period of one minute.

This method of test requires a test equipment not generally found in the service trade.

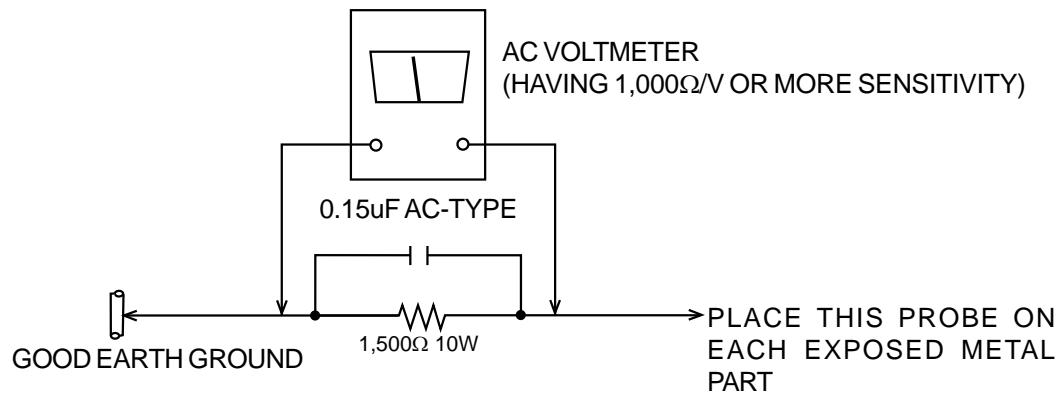
(2) Leakage Current Check

Plug the AC line cord directly into the AC outlet (do not use a line isolation transformer during this check.). Using a "Leakage Current Tester", measure the leakage current from each exposed metal part of the cabinet, particularly any exposed metal part having a return path to the chassis, to a known good earth ground (water pipe etc.). Any leakage current must not exceed 3.5mA AC(r.m.s.).

Alternate Check Method

Plug the AC line cord directly into the AC outlet (do not use a line isolation transformer during this check.). Use an AC voltmeter having 1,000 ohms per volt or more sensitivity in the following manner. Connect a $1,500\Omega$ 10W resistor paralleled by a $0.15\mu\text{F}$ AC-type capacitor between an exposed metal part and a known good earth ground (water pipe etc.).

Measure the AC voltage across the resistor with the AC voltmeter. Move the resistor connection to each exposed metal part, particularly any exposed metal part having a return path to the chassis, and measure the AC voltage across the resistor. Now, reverse the plug in the AC outlet and repeat each measurement. Any voltage measured must not exceed 2.45V AC(r.m.s.). This corresponds to 3.5mA AC(r.m.s.).



1. SET-UP ADJUSTMENTS

The following adjustments should be made when a complete realignment is required or a new picture tube is installed.

<Required measuring equipment>

Signal generator (Programmable video generator)..... Leader 1604A
DC voltmeter (300V DC range)
Note: Digital multimeter can also be used.
High voltage probe (0-30kV DC)
Color analyzer..... Minolta CA-100
Photometer..... Minolta LS-100
Electric field meter..... Combinova EFM 100
Scale (Two 50cm scales put together so that no visual aberration occurs.)
Frequency counter
Digital wattage meter
Degausser
Interface adapter (Iiyama handmade)
Short-connector (Iiyama handmade)

<Preparation>

1. Place the monitor without tilting.
2. Connect the signal cable from the signal generator to the monitor.
3. Face the CRT screen to east so as not to be influenced by magnetic force.
4. Turn ON the Power Switch, and degauss the entire screen with degausser.
5. Perform adjustment by setting the brightness to center and the contrast to maximum, except where specifically indicated.
6. Receive MODE 5 and turn ON the Power Switch. Perform adjustment after a warm-up of at least an hour.
7. Adjustment data is automatically saved in the memory when the on screen display disappears or another signal is received.

Note: This monitor should be checked and adjusted by connecting it to a signal generator, then entering and running the timing charts both below and of Chapter 2.

fH (kHz)	Resolution*	Sync polarity			Sync on green	Horizontal (usec)					Vertical (msec)				
		H	V	Comp		A	B	C	D	E	O	P	Q	R	S
27.3	608x420	N	N	—	—	36.76	4.41	2.21	27.94	2.20	16.652	0.074	0.771	15.439	0.368
30.0	640x480	N	N	—	—	33.39	2.50	0.39	30.05	0.45	16.661	0.067	0.567	15.526	0.501
85.0	368x1360	N	P	—	—	11.76	1.20	1.41	8.66	0.49	16.663	0.047	0.587	15.994	0.035
87.5	544x1360	N	N	—	—	11.43	1.16	1.38	8.38	0.51	16.196	0.046	0.571	15.545	0.034

* The resolutions are only for your reference when using Leader 1604A.

ADJUSTMENT MODE

There are two different modes available to adjust the monitor as described below. The adjustment with '□' in front of the title are only available under User Mode. The adjustments with '■' in front of the title are only available under Factory Mode. You can perform the other adjustments by either User or Factory Mode. Please change the mode as required.

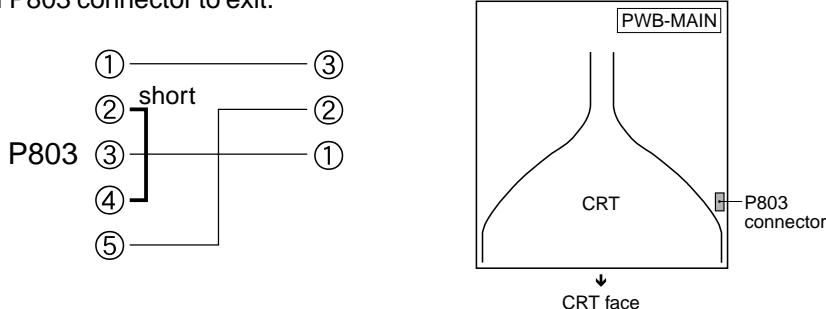
USER MODE:

Turn ON the Power Switch and you are in the User Mode.

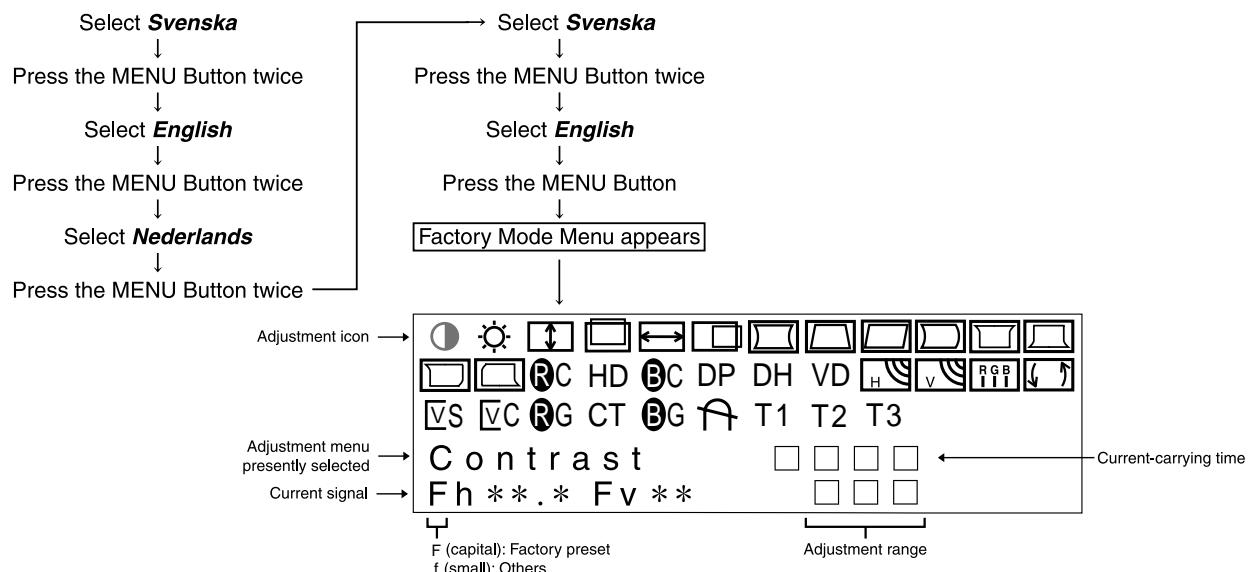
FACTORY MODE:

There are two ways to enter the Factory Mode.

1. Turn OFF the Power Switch. Short between pins 2 and 4 of P803 connector on the PWB-MAIN with a short-connector. Turn ON the Power Switch and you are in the Factory Mode. The following Factory Mode Menu appears on the screen when you press the MENU Button. Turn OFF the Power Switch and remove the short-connector from P803 connector to exit.



2. In the adjustment menu, select "Function" on the Main Menu and then select "Language" on the Sub-Menu. Follow the flow chart below and you are in the Factory Mode. Turn OFF the Power Switch to exit.



The menu items in the Factory Mode are as follows:

Contrast	Pincushion	Pinbalance Top	DBF Phase	V linear side	DA TEST 1
Brightness	Trapezoid	Pinbalance Btm	V DBF	V linear corner	DA TEST 2
V-size	Parallelogram	Cutoff red	H moire	Red gain	DA TEST 3 *
V-position	Pinbalance	H-size bias	V moire	Temp cont	
H-size	Side pin Top	Cutoff blue	H convergence	Blue gain	
H-position	Side pin Bottom	DBF Para	Tilt-Dy	Degauss	

* DA TEST 3 helps you to perform H/V-BLANKING and H-CONVERGENCE / TILT-DY confirmations in this SET-UP ADJUSTMENTS. The following items are displayed automatically in turn.

1. H-convergence → 2. Tilt-dy → 3. H/V-blanking

1-1. ANODE VOLTAGE adjustment [PWB-MAIN]

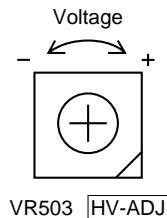
WARNING !

VR501 (HV-ADJ) has been carefully factory-adjusted for each unit in order to satisfy regulations regarding X-radiation.

Further adjustment on VR501 shall not be performed.

In case of adjustment, the adjusted position of VR501 must be fixed by a soldering iron to prevent it from rotating.

- 1) Receive a cross-hatch inverted signal of MODE 5.
- 2) Turn OFF the Power Switch.
- 3) Connect a high-voltage probe between CRT anode and GND (chassis).
- 4) Turn ON the Power Switch.
- 5) Adjust the high-voltage to 25.0 ± 0.1 kV with VR503 (HV-ADJ).
- 6) Confirm the variation of high-voltage is within ± 0.2 kV when receiving MODE 2 and MODE 6 respectively.
- 7) Turn OFF the Power Switch and remove the high-voltage probe.

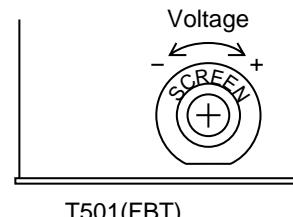


VR503 [HV-ADJ]

1-2. SCREEN VOLTAGE adjustment [PWB-MAIN]

- 1) Receive a cross-hatch inverted signal of MODE 5.
- 2) Turn ON the Power Switch.
- 3) Connect a high-voltage probe between the SC connector on the PWB-VIDEO and GND (chassis).
- 4) Adjust the screen voltage to 630 ± 10 V with SCREEN VR located lower of T501 (FBT).

Note: SCREEN VR should not be turned after the adjustment above.



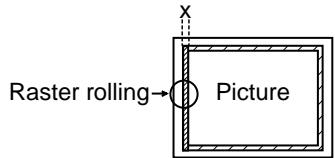
T501(FBT)

■1-3. FH-LIMITER confirmation

- 1) Receive a cross-hatch inverted signal of fH 27.3kHz.
- 2) Confirm that the picture disappears. Also, make sure the horizontal oscillation frequency is within the specified range: 59-61kHz.
- 3) Receive fH 30.0kHz and confirm that the picture is synchronized.
- 4) Receive fH 87.5kHz and confirm that the picture disappears. Also, make sure the horizontal oscillation frequency is within the specified range above.
- 5) Receive fH 85.0kHz and confirm that the picture is synchronized.
- 6) Turn OFF the power of signal generator and confirm that the picture disappears. Also make sure the horizontal oscillation frequency is within the specified range above.
- 7) Remove the frequency counter.

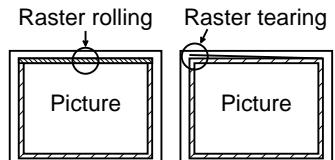
■1-4. H-BLANKING confirmation

- 1) Receive a cross-hatch inverted signal of MODE 5 or MODE 6.
- 2) Minimize the horizontal size with the front buttons.
- 3) Select DA TEST 3 and press the MENU Button so that the automatic confirmation program starts.
- 4) Confirm that X of the right hand side figure is as follows: $|X| \leq 3.0\text{mm}$.
- 5) Adjust the horizontal size roughly with the front buttons.



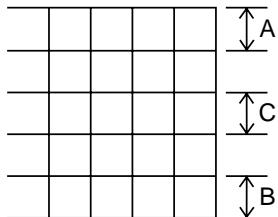
■1-5. V-BLANKING confirmation

- 1) Receive a cross-hatch inverted signal of MODE 5 or MODE 6.
- 2) Adjust the vertical size and position (V-size and V-position) of the picture roughly with the front buttons.
- 3) Select DA TEST 3 and press the MENU Button so that the automatic confirmation program starts.
- 4) Confirm that the back-raster is not rolling or tearing at the top.
- 5) Confirm that no retrace line is over the picture.



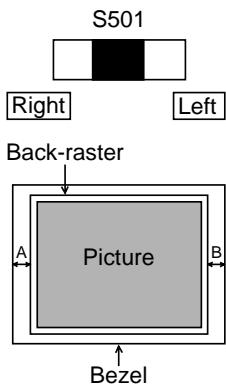
■1-6. V-LIN adjustment

- 1) Receive a cross-hatch inverted signal of MODE 5.
- 2) Adjust the vertical size to $232.5 \pm 10\text{mm}$.
- 3) Adjust the vertical linear corner (V linear corner), so that difference between A and B of the right hand side figure is as follows: $|A-B| \leq 0.5\text{mm}$
- 4) Adjust the vertical linear side (V linear side), so that A, B and C are almost equal.



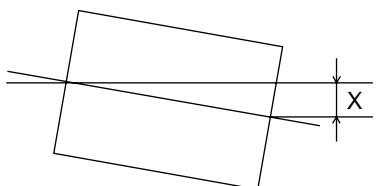
■1-7. H-CENT adjustment [PWB-MAIN]

- 1) Receive a cross-hatch inverted signal of MODE 6.
- 2) Adjust the horizontal size and position of the picture roughly with the front buttons.
- 3) Maximize the brightness so that the back-raster appears on the screen.
- 4) Set S501 to the right, center or left so that A and B in the right hand side figure are almost equal.
- 5) Return the brightness to center indication (adjustment range: 128).



■1-8. TILT-DY adjustment

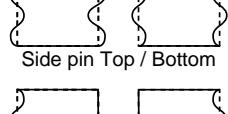
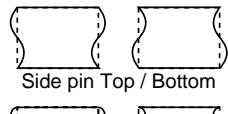
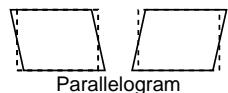
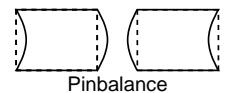
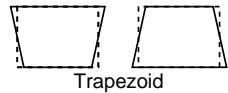
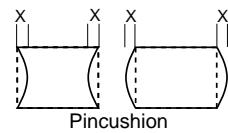
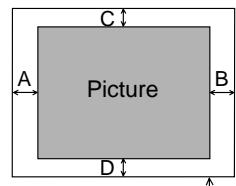
- 1) Receive a cross-hatch inverted signal of MODE 5.
- 2) Adjust the tilt deflection yoke (Tilt-Dy) with the +/- Buttons so that X of the right hand side figure is as follows: $|X| \leq 0.5\text{mm}$.



■1-9. PICTURE SIZE, POSITION AND DISTORTION adjustment (Criteria)

- 1) Receive a cross-hatch inverted signal of MODE 5.
- 2) Adjust the picture size and position to the specified setting below.
H-size: 310 ± 4 mm H-position: $|A-B| < 4$ mm
V-size: 232.5 ± 4 mm V-position: $|C-D| < 4$ mm
- 3) Correct the side distortion with the front buttons so that X of the right hand side figure is as follows: $|X| \leq 3.0$ mm.

Pincushion	Parallelogram
Trapezoid	Side pin Top / Bottom
Pinbalance	Pinbalance Top / Bottom



■1-10. PICTURE SIZE, POSITION AND DISTORTION adjustment

- 1) Receive a cross-hatch inverted signal of all preset modes respectively.
- 2) Adjust the picture size and position roughly with the front buttons to the reference settings below.
H-size: 310 ± 10 mm H-position: $|A-B| < 8$ mm
V-size: 232.5 ± 10 mm V-position: $|C-D| < 8$ mm
- 3) Correct the Pincushion and Trapezoid distortion with the front buttons so that X of the right hand side figure is as follows: $|X| \leq 3.0$ mm.

Notes: 1. No other adjustment items for distortion than the above should be adjusted.

2. The picture should be within the bezel.

□1-11. RESET confirmation

- 1) Receive a cross-hatch inverted signal of MODE 5.
- 2) Change the horizontal position (H-Position) roughly with the front buttons.
- 3) Perform Reset.
- 4) Confirm that the adjustment data above is reset to the factory setting.

■1-12. Automatic COLOR adjustments

WARNING: Do not change the horizontal and vertical sync signal or the frequency while the automatic COLOR adjustments are underway.

Color analyzer setting:

- Luminance unit switch: cd/m²
- B.P.S. DIP switch: 9600 (1000)
- Turn ON the color analyzer switch and press 0-CAL switch before use.

cd/m² fL
Luminance unit switch



B. P. S. DIP switch

- 1) Be sure to enter the Factory Mode by using the short-connector.
- 2) Connect the interface adapter from RS-232C of the color analyzer to the short-connector.
- 3) Receive a white window signal of MODE 5.
- 4) Turn OFF the R, G and B outputs on the signal generator.
- 5) Apply a color analyzer probe to the center of the screen.
- 6) Turn ON the Remote Switch of the color analyzer so that the automatic CUT-OFF adjustment starts.
- 7) Turn ON the R, G and B outputs on the signal generator so that the COLOR TEMPERATURE and CONTRAST LIMIT adjustments start automatically.

<COLOR TEMPERATURE>

The X and Y specified readings of the color analyzer are as follows:

CT 1 (9300K)
X: 0.283±0.008
Y: 0.297±0.008

<CONTRAST>

The specified contrast range is 140±5cd/m²

Note: In case that the contrast is not within the specified range above, repeat 4) to 7).

- 8) The OSD disappears.
- 9) Press the MENU Button so that the OSD appears.
- 10) All adjustment data is stored when the OSD disappears.
- 11) Turn OFF the Remote Switch of the color analyzer.

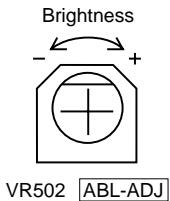
Note: The adjustments above can be repeated by turning OFF and ON the Power Switch.

■1-13. GRAY SCALE confirmation

- 1) Receive a 16-gradation gray scale signal of MODE 5.
- 2) Make sure the 15th gradation on the gray scale is barely visible when the 16th gradation (back raster) is not visible at all.

■1-14. BRIGHTNESS adjustment [PWB-MAIN]

- 1) Receive an entire white raster signal of MODE 5.
- 2) Apply a photometer to the screen center.
- 3) Adjust VR502 (ABL-ADJ) so that photometer reads $105 \pm 5 \text{cd/m}^2$.



■1-15. SYNC SIGNAL INPUT confirmation

- 1) Receive a cross-hatch inverted signal of MODE 5.
- 2) Select composite and sync on green signal inputs respectively by the signal generator.
- 3) Confirm that the picture is displayed normally.

□1-16. POWER MANAGEMENT confirmation

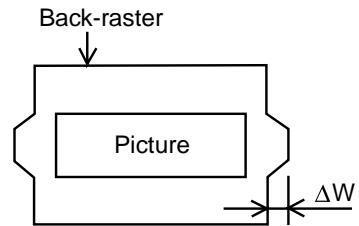
- 1) Turn OFF the Power Switch and connect a digital wattage meter.
- 2) Turn ON the Power Switch.
- 3) Receive a cross-hatch inverted signal of MODE 5.
- 4) Turn OFF the R, G and B outputs on the signal generator.
- 5) Disconnect the H/HV and V cables.
- 6) Confirm that the input wattage is 3W or less and the Power Indicator turns to orange.
- 7) Connect the H/HV and V cables and confirm that the picture appears.
- 8) Turn OFF the Power Switch and remove the digital wattage meter.
- 9) Turn ON the Power Switch.

■1-17. H-CONVERGENCE, TILT-DY confirmation

- 1) Receive a cross-hatch inverted signal of MODE 5 or MODE 6.
- 2) Select DA TEST 3 and press the MENU Button so that the automatic confirmation program starts.
- 3) Confirm that vertical blue lines are diverged to the right and the picture tilts to the left.

■1-18. RASTER REGULATION (DYNAMIC) confirmation

- 1) Receive an entire white signal of MODE 6.
- 2) Set the input signal by the signal generator as follows:
V-DISPLAY-TIME: 150 V-POSI-TIME: 450
- 3) Maximize the brightness.
- 4) Confirm that ΔW of the right hand side figure is 1.0mm or less when turning the luminance volume on the signal generator to the maximum and "1" respectively.
- 5) Return the brightness to center indication (adjustment data: 128).



■1-19. FOCUS [PWB-MAIN]

- 1) Receive a green cross-hatch signal of MODE 5.
- 2) Adjust FOCUS-A VR of T504 (FBT) to make the vertical lines sharpest at points L, M and R as shown in Fig 1.
- 3) Adjust FOCUS-B VR of the T504 to make the horizontal center line sharpest at points L, M and R as shown in Fig. 1.
- 4) If the focus at points T and M is as shown in Fig. 2, adjust V DBF in the menu with the front buttons to make the horizontal lines have the same thickness at points T, M and B. And adjust the FOCUS-B VR again to make the horizontal lines sharpest at points T, M and B. (V DBF should not be adjusted when focus at points T and M is optimum.)
- 5) If the focus at points L and M is as shown in Fig. 3 or vice versa, adjust DBF Para and DBF Phase in the menu with the front buttons to make the horizontal center line have the same thickness at points L, M and R. And adjust the FOCUS-B VR again to make the horizontal center line sharpest at points L, M and R. (DBF Para and DBF Phase should not be adjusted when focus at points L and M is optimum.)
- 6) Repeat 2) to 6) until the focus is optimum.
- 7) Confirm no focus variation on the entire screen.
- 8) Check the focus with red and blue respectively.
- 9) Receive a H-character signal and repeat 7).
- 10) Repeat the FOCUS adjustments until the focus with red, green and blue is optimum.

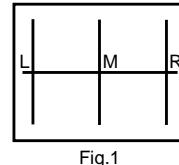
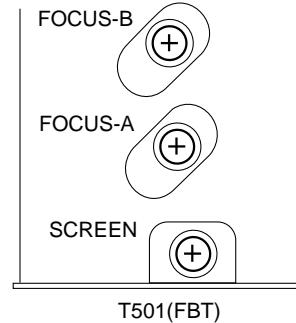


Fig.1

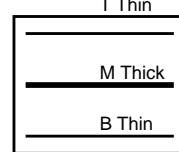


Fig.2

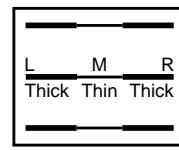
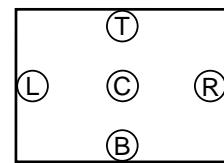


Fig.3

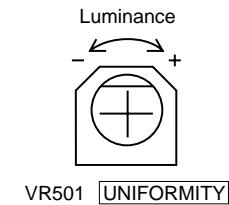
■ 1-20. LUMINANCE DIFFERENCE adjustment (A705MT / i70A)

- 1) Receive an entire white signal of MODE 5.
- 2) Apply a photometer to C (center), L (left) and R (right) in the right hand side figure respectively.
- 3) Confirm that the luminance difference between C, L and R is within $\pm 10\text{cd/m}^2$ respectively.
- 4) If the luminance difference is not within the specified range above, adjust VR501 (UNIFORMITY).



1-21. LUMINANCE DIFFERENCE confirmation (A705MT / i70A)

- 1) Receive an entire white signal of MODE 5.
- 2) Apply a photometer to L (left) / R (Right), T (Top) and B (Bottom) in the right hand side figure respectively.
- 3) Confirm that the luminance difference is the 22.5cd/m^2 or less.



■ 1-22. ITC (Integrated Tube Component) adjustments

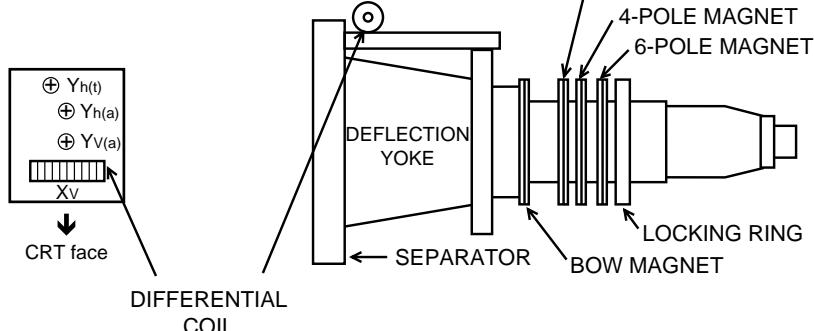
The following ITC adjustments should be made only when a new picture tube is installed*1, or convergence is poor. All set-up adjustments above-mentioned must be completed before any further ITC adjustment is attempted. Perform the following adjustments by setting H-convergence and Tilt-dy to center indication.

Notes: *1. Use the CRT (251Z063-03) for replacement of the CRT (251Z063-04).

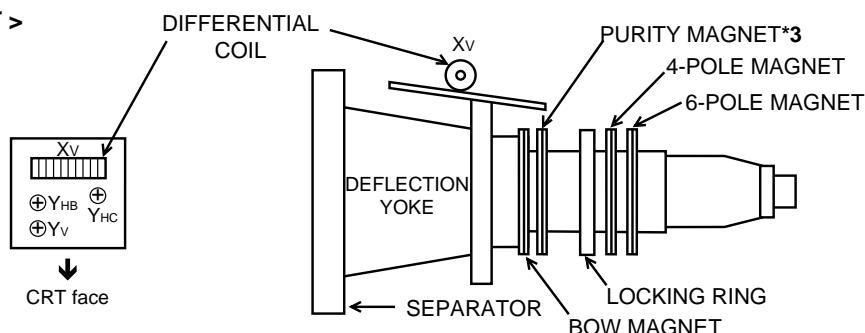
*2. See Chapter 5 concerning parts list for the ITC adjustments.

*3. PURITY MAGNET should not be turned during the ITC adjustments.

< A705MT / i70A >



< S705MT >



Before ITC adjustments:

Receive an entire white raster signal and turn ON the Power Switch. Perform adjustment after a warm-up of at least an hour.

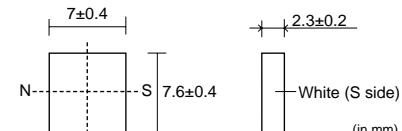
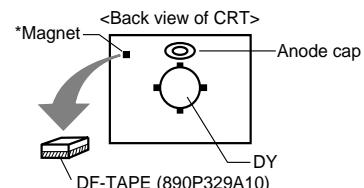
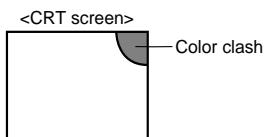
1-22-1. PURITY correction

- 1) Receive an entire red raster signal.
- 2) Adjust the vertical and horizontal picture size to full-scan.
- 3) Face the CRT screen to north and south respectively and degauss the entire screen with degausser.
- 4) Confirm that no color clash is visible.
- 5) If any partial color clash, correct the purity with the *magnet (890Z008A01).

Note: Stick the magnet to the CRT with DF-TAPE (890P329A10).

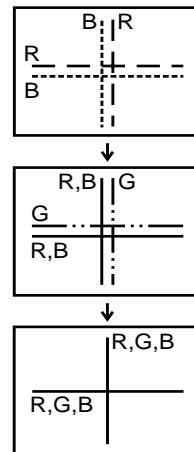
- 6) Perform degauss again.
- 7) Repeat 4) to 6) until the purity is optimum.
- 8) Fix the magnet with ACETATE-TAPE (890P306A10).

Note: The magnet should be fixed away from the DY not to change distortion or convergence.



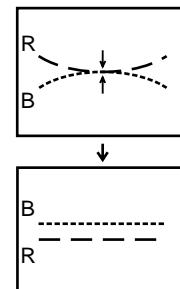
1-22-2. STATIC CONVERGENCE adjustment

- 1) Receive a red and blue cross-hatch signal.
- 2) Adjust the 4-POLE MAGNET so that red and blue beams converge on the center cross lines.
- 3) Add green to the red and blue cross-hatch signal.
- 4) Adjust the 6-POLE MAGNET so that red and blue beams converge with green beam on the center cross lines.
- 5) Repeat the adjustment until red, blue and green beams converge each other.
- 6) Fix the 4-POLE MAGNET and the 6-POLE MAGNET by turning the LOCKING RING.
- 7) Mark the 4-POLE MAGNET and the 6-POLE MAGNET with paint marker (090Z029A01) so that adjusted position is understandable.



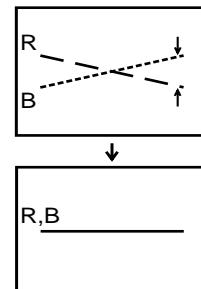
1-22-3. BOW MAGNET adjustment

- 1) Receive a red and blue cross-hatch signal.
- 2) Adjust the BOW MAGNET so as to straighten an arched horizontal line.
Note: Must be careful not to misconverge vertical lines by this adjustment.
- 3) Perform the 1-22-2. STATIC CONVERGENCE adjustment so as to converge the red and blue lines.
- 4) Fix the BOW MAGNET with paint (090Z020A01).



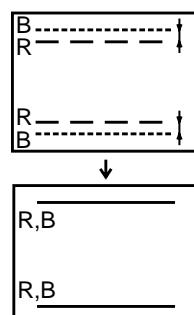
1-22-4. DIFFERENTIAL COIL adjustment (XV adjustment)

- 1) Receive a red and blue cross-hatch signal.
- 2) Adjust the DIFFERENTIAL COIL so that the horizontal cross line converge each other.



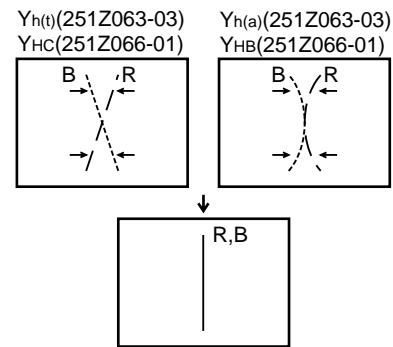
1-22-5. YV adjustment

- 1) Receive a red and blue cross-hatch signal.
- 2) Adjust the specified YV volume so that red and blue beams converge each other at the upper and lower edges of the horizontal line.



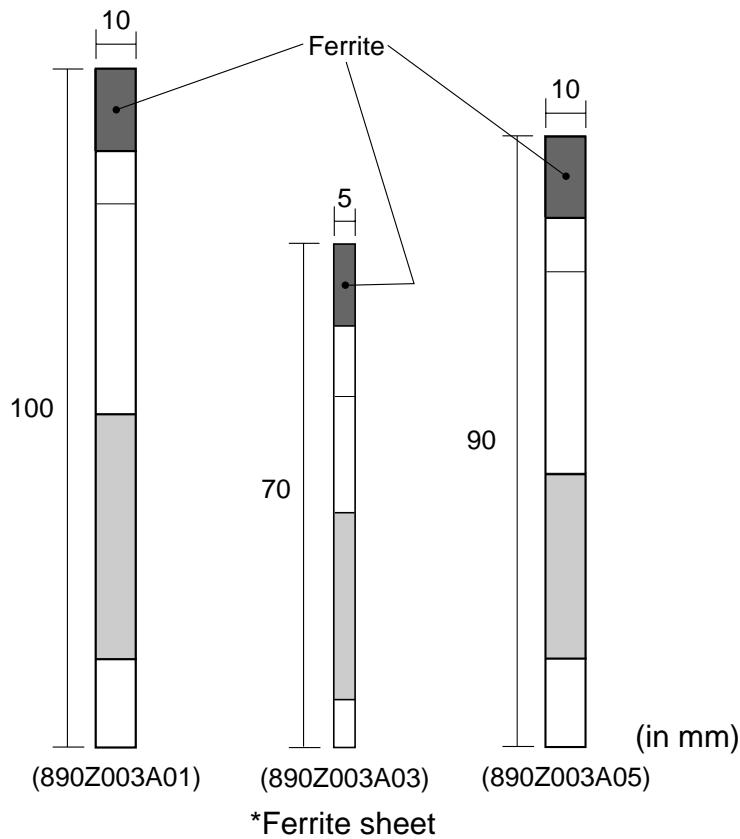
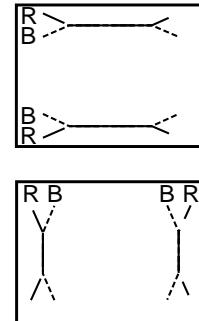
1-22-6. YH adjustment

- 1) Receive a red and blue cross-hatch signal.
- 2) Adjust the specified YH volumes so that vertical cross lines converge each.

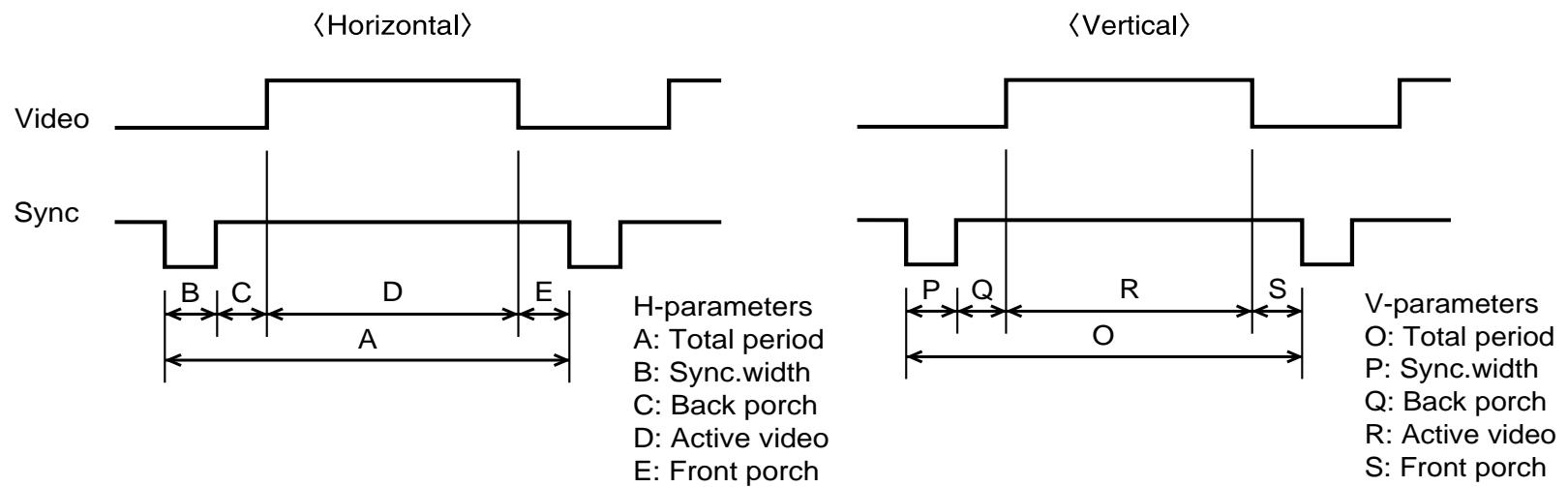


1-22-7. SCREEN-CORNER MISCONVERGENCE correction

- 1) Receive a red and blue cross-hatch signal.
 - 2) Affix a *ferrite sheet (890Z003A01/03/05) between SEPARATOR and CRT corresponding to the partially misconverged areas.
- Note:** Must be careful not to affect distortion by this correction.
- 3) Fix the ferrite sheet with ACETATE-TAPE (890P306A10).



2. TIMING CHART



Mode	VESA Timing Name	f _H (kHz)	f _V (Hz)	Sync polarity			Sync on green	Horizontal (μsec)					Vertical (msec)				
				H	V	Comp		A	B	C	D	E	O	P	Q	R	S
1	640x400 @ 70Hz	31.469	70.080	N	P	–	–	31.778	3.813	1.907	25.422	0.636	14.268	0.064	1.112	12.711	0.381
2	640x480 @ 60Hz	31.469	59.940	N	N	–	–	31.778	3.813	1.907	25.422	0.636	16.683	0.064	1.048	15.253	0.318
3	640x480 @ 85Hz	43.269	85.008	N	N	–	–	23.111	1.556	2.222	17.778	1.556	11.764	0.069	0.578	11.093	0.023
4	800x600 @ 85Hz	53.674	85.061	P	P	–	–	18.631	1.138	2.702	14.222	0.569	11.756	0.056	0.503	11.179	0.019
5	1024x768 @ 85Hz	68.677	84.997	P	P	–	–	14.561	1.016	2.201	10.836	0.508	11.765	0.044	0.524	11.183	0.015
6	1280x1024 @ 75Hz	80.00	75.0	P	P	–	–	12.5	1.07	1.84	9.48	0.11	13.325	0.037	0.475	12.8	0.013

3. IC APPLICATION

Ref No.	Description	Application
Deflection circuit		
IC301	UPC1884	H&V oscillator, Distortion / Size / Phase / DBF control
IC401	LA7840N	Vertical deflection output
IC501	SLA5077	Cushion-S switching FET array
Power circuit		
IC803	KIA7045 / M51951	5V power watcher (Microprocessor system reset)
IC901	TEA1504	Main power control
IC903	LM317T	12V regulator
IC904	LM317T	6.3V regulator (Heater voltage ON/OFF control)
IC905	KIA431	Feedback control
IC906	KIA78DL05PI	5V regulator
Microprocessor circuit		
IC801	TMP86CP11N	Microprocessor
IC802	24C08	E ² PROM (Memory: 8K)
High voltage circuit		
IC502	MSPAD104	High voltage output control
Video circuit		
IC201	M52743BSP	Video pre-amplifier
IC202	LM2415T	Video output
IC203	M35047SP	On screen display control
CRT circuit		
IC205	LA6510	Power amplifier (TILT-DY, H-convergence control)
IC209	324	Power amplifier (Cut-off control)

Note: Specifications of Microprocessor are on next page.

Microprocessor specifications

Pin	Name	Function	Pin	Name	Function
1	GND	GND	42	V-IN	V-SYNC signal input
2	XIN	12MHz X'TAL	41	H-IN	H-SYNC / COMP signal input
3	XOUT	12MHz X'TAL	40	V-OUT	V-SYNC signal out
4	TEST	GND	39	H-OUT	H-SYNC signal out
5	VDD	5V Vcc	38	CLAMP	Video clumper
6	MODEL SW	Model switching (A705: Low, S705: High)	37	NC	N.C.
7	CS1	Cushion-S switching signal 1	36	NC	N.C.
8	RESET	Reset	35	DDC SDA	DDC Data input/output terminal
9	CS2	Cushion-S switching signal 2	34	DDC SCL	DDC Clock terminal
10	H-CONV	H-convergence	33	EROM SDA	E ² PROM Data input/output terminal
11	TILT	Tilt	32	EROM SCL	E ² PROM Clock terminal
12	SIZE	H-size freq. correction voltage output	31	I2C SDA	Upc1888/Pre/OSD/DA Data input/output terminal
13	NC	N.C.	30	I2C SCL	Upc1888/Pre/OSD/DA Clock terminal
14	CS3	Cushion-S switching signal 3	29	LED1	LED1 control
15	CS4	Cushion-S switching signal 4	28	LED2	LED2 control
16	NC	N.C.	27	PS1	Main power off signal
17	H-LIN	Linearity switching signal output	26	DEG	Degauss control signal output
18	NC	N.C.	25	PS2	12V power off signal
19	KEY1	Front +/- key signal input terminal (+: 0V, -: 2.5V)	24	CLK	Automatic adjustment Clock terminal
20	KEY2	Front Menu key signal input terminal	23	DATA-IN	Automatic adjustment Data input terminal
21	VREF	5V Vcc	22	DATA-OUT	Automatic adjustment Data output terminal

4. CIRCUIT DESCRIPTION

4-1. POWER SUPPLY circuit

(1) Normal mode

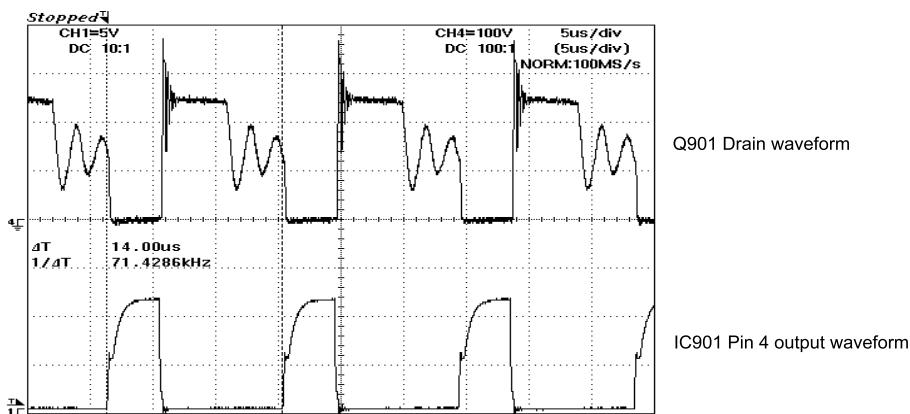
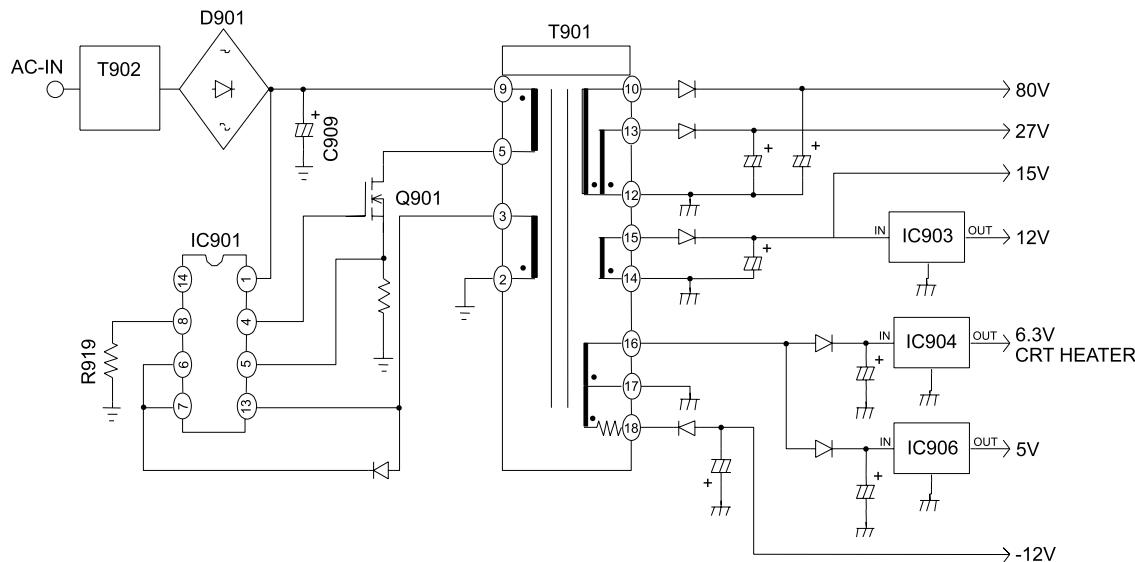
This circuit is an asynchronous switching power supply circuit with using IC901.

Switching frequency is determined on approx. 70kHz oscillation by resistance of R919.

IC905 detects the load of 27V output voltage from the T901 secondary and controls luminescence of PC901 (photocoupler). The 27V output voltage is fed back to pin 9 of IC901. The feedback voltage changes the output pulse duty of pin 4 of IC901 and stabilize the output voltages from the T901 secondary.

The T901 secondary provides the following DC voltages:

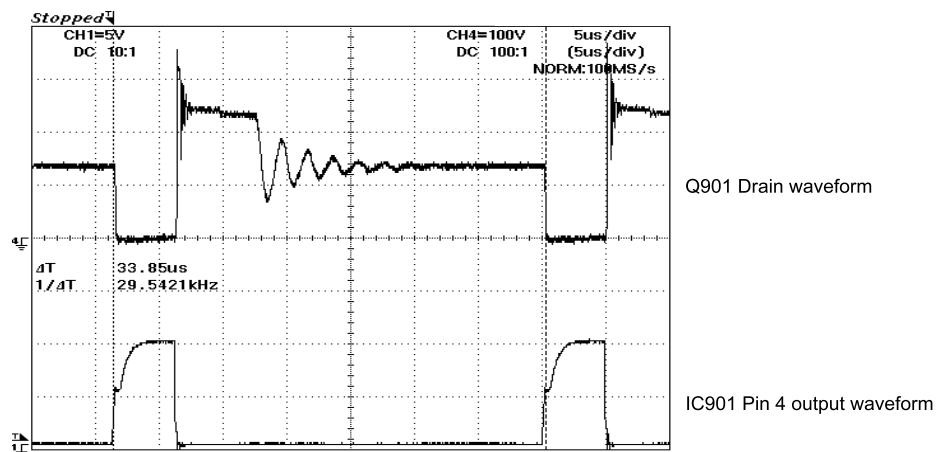
- ① 80V line: Supplied to the HIGH VOLTAGE OUTPUT and the CUT-OFF circuits and the VIDEO OUTPUT IC as power source.
- ② 27V line: Supplied to the HORIZONTAL DEFLECTION OUTPUT (variable B voltage control) circuit as power source.
- ③ 15V line: Supplied to the HORIZONTAL DRIVE and the SIGNAL CONTROL circuits and the VERTICAL OUTPUT IC (+) as power source.
- ④ -12V line: Supplied to the VERTICAL OUTPUT IC (-) as power source.



(2) Power management modes

① Stand-by / Suspend state

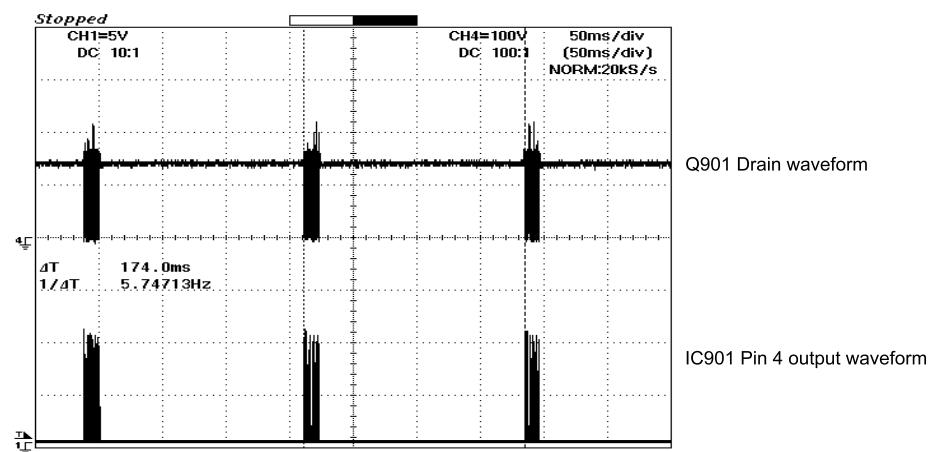
The 12V line of the T901 secondary stops so that a load current decreases and the feedback voltage to pin 9 of IC901 declines. The output frequency of pin 4 of IC901 is switched to 30kHz from 70kHz and it reduces a power.



② Active-off state

Input voltage to IC906 is supplied from 80V line of T901 secondary when D914 (thyristor) is activated so that IC901 is switched to burst transmission mode (intermittent oscillation).

Therefore, the output voltages of T901 secondary decline to approx. 7% of normal output voltage and it reduces a power.



4-2. PROTECTION circuit

This circuit is composed of the following protection circuits to prevent a damage to the monitor and X-ray radiation when the monitor is inoperative.

When the circuit is in the following cases, pin 19 of IC301 turns to 5V and then the horizontal drive signal output from pin 17 and the variable B control pulse output from pin 14 turn to "LOW" level (0V). It makes the HORIZONTAL DEFLECTION OUTPUT and the HIGH VOLTAGE OUTPUT circuits stop.

The signal that the X-RAY PROTECTION circuit is activated is sent to IC801 (Microprocessor) from IC301 by I2C-BUS when pin 19 turns to 5V. IC801 receives the signal and then PS1 signal of pin 27 turns to "HIGH" level (5V) so that the DC voltages except for the 5V line are turned off.

In case that the PROTECTION circuit is activated and the HORIZONTAL DEFLECTION OUTPUT, HIGH VOLTAGE OUTPUT and MAIN POWER SUPPLY circuits are turned off, turn OFF and ON the Power Switch to recover.

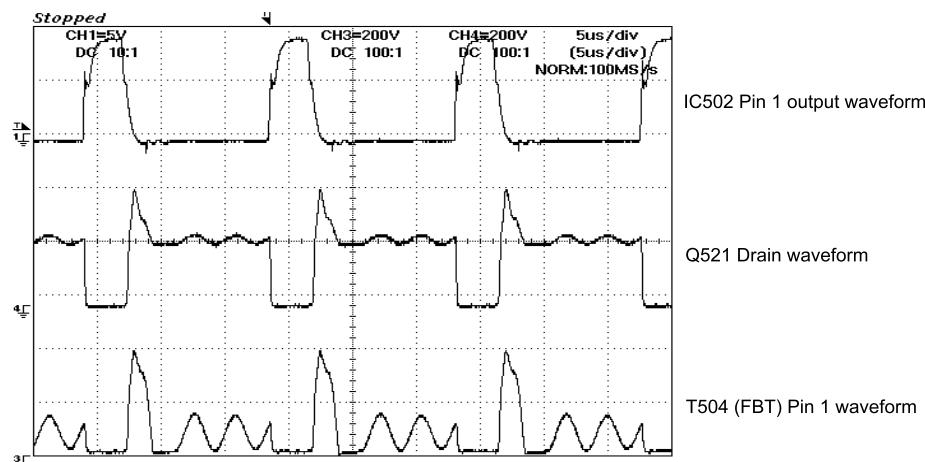
The PROTECTION circuit operates in the following cases:

- ① +B9 line: The voltage is 180V or more.
- ② X-RAY PROTECTION circuit: The high voltage is 29.9kV or more.
- ③ ARC LIMIT circuit: The beam current is 2.5mA or more.

4-3. HIGH VOLTAGE CONTROL / OUTPUT circuit

The AFC pulse output from the HORIZONTAL DEFLECTION OUTPUT circuit is applied to pin 1 of IC502 and then a control pulse synchronized with the frequency of the AFC pulse is output from pin 1 of IC502 PCS (primary control system).

This circuit is to detect a feedback voltage from the FBT (flyback transformer), change the output duty of pin 1 of IC502, and control the high voltage change due to the brightness changes.



4-4. DISPLAY POWER MANAGEMENT circuits

(1) Stand-by / Suspend state:

When receiving no horizontal or vertical sync signal for 6 seconds, the output voltage of pin 25 of IC801 turns to 5V from 0V and Q903 is turned off. The output voltage of IC903 (12Vreg.) turns to 1.2V from 12V and then the circuit controlled by 12V stops operation. Therefore, it keeps the power consumption 10W or less.

(2) Active-off state:

When receiving no horizontal and vertical sync signals for 6 seconds, the output voltage of pin 27 of IC801 turns to 5V from 0V and Q904 is turned on. The D914 starts operation and the output voltage of T901 secondary declines to approx. 7%. All circuits except for the 5V line stop and it keeps the power consumption 3W or less. In this case, as an input voltage of IC906 is supplied from the 80V line, the circuit controlled by 5V is activated.

<Power save control signals>

Mode	Sync signal	PS1	PS2	Circuit
		IC801 pin 27	IC801 pin 25	
Normal	H,V-Sync, VIDEO: ON	LOW	HIGH	All circuits are activated.
Stand-by	V-Sync, VIDEO: OFF	HIGH	HIGH	12V circuit stops.
Suspend	H-Sync, VIDEO: OFF	HIGH	HIGH	
Active-off	H,V-Sync, VIDEO: OFF	HIGH	LOW	All circuits except for 5V line stop.

4-5. SYNC SIGNAL PROCESSING circuit

The input signal from D-SUB connector is input to pins 41 (H) and 42 (V) of IC801. The input sync signal is waveform-shaped and output from pins 39 (H) and 40 (V), and then supplied to pins 26 (H) and 27 (V) to control the horizontal and vertical deflection.

The input sync signal to IC801 is processed by SYNC SIGNAL PROCESSING circuit in IC801 as follows:

- ① Detect the input sync signal presence
- ② Discriminate the input sync signal type: Separate / Composite
- ③ Discriminate the sync polarity: Positive / Negative
- ④ Count the frequency

Counting criterion: X'TAL 12MHz

4-6. VIDEO circuit

(1) Pre-amp

<VIDEO>

The video signal from D-SUB connector is input to IC201 pre-amplifier and then clamped by clamp signal input to pin 19. The blanking signal input to pin 27 is synthesized with the clamped signal and then output from pins 35 (RED), 32 (GREEN) and 29 (BLUE) respectively.

V-BLK signal: Remove the raster retrace line.

H-BLK signal: Remove the side raster rolling.

<ABL>

DC voltage input to pin 15 of IC201 controls the amplitude of the video output signal. Therefore, it controls the FBT beam current.

ABL is activated (entire white raster): Approx. 3.5VDC at pin 15

ABL is not activated (window): Approx. 4.1VDC at pin 15

The parabolic waveform is added to video output signal by synthesizing the H-DBF parabolic waveform from Q517 and it corrects a luminance difference between the left and right side of the picture.

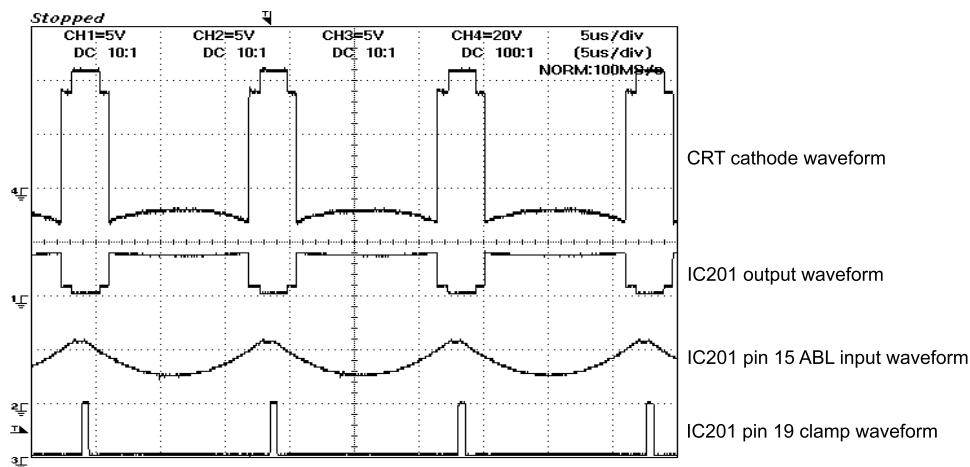
I2C-BUS controls D/A converter in IC201 as follows:

- ① Contrast
- ② Sub-brightness
- ③ R/G/B drive
- ④ OSD contrast
- ⑤ D/A output for the CUT-OFF circuit

(2) VIDEO-OUT and CUT-OFF circuits

The video signal input to pin 9 (RED), 8 (GREEN) and 11 (BLUE) of IC203 is amplified by 13 times and then output from pin 3 (RED), 5 (GREEN) and 1 (BLUE) respectively.

The cut-off and brightness control voltages output from pins 23-26 of IC201 are amplified by 17 times by IC204 and the transistor. The DC voltage output from IC203 is added to the video signal and then supplied to the CRT cathode grid.



4-7. CONTROL circuits

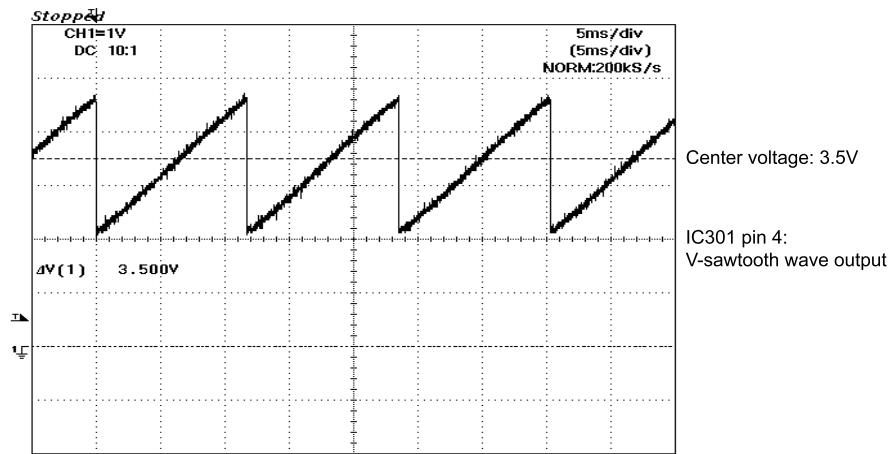
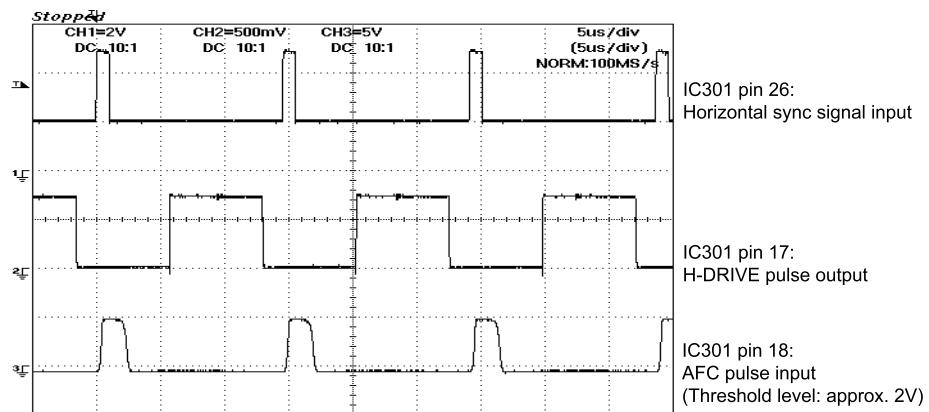
(1) HORIZONTAL/VERTICAL OSCILLATION circuit

The sync signal input to IC301 is phase-sifted and converted to the waveform in IC301. The pulse synchronized with the horizontal sync signal is output from pin 17 as horizontal drive pulse. The sawtooth wave synchronized with the vertical sync signal is output from pin 4.

The pulse output from pin 17 generates a frequency locked to the input signal under the following conditions:

- ① The horizontal sync signal is input to pin 26.
- ② The vertical sync signal is input to pin 27.
- ③ The feedback pulse (AFC pulse) of the HORIZONTAL DEFLECTION OUTPUT circuit is input to pin 18.

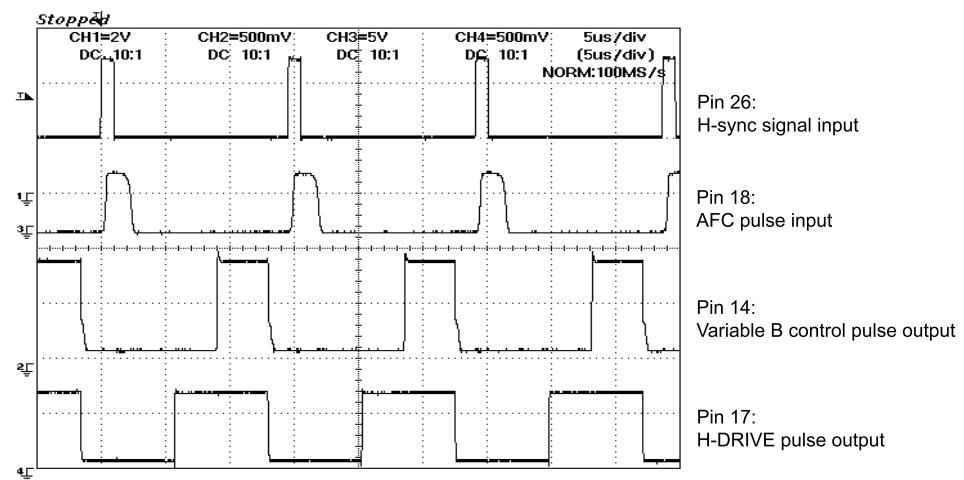
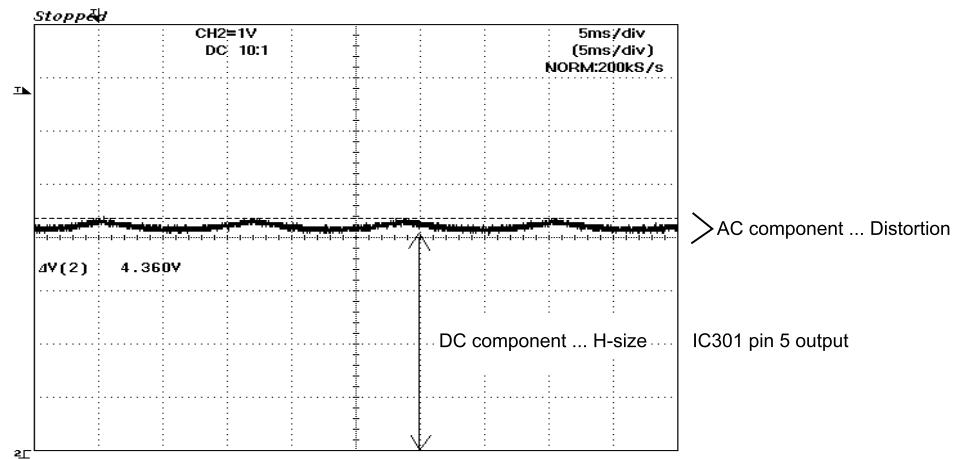
IC301 is auto-sync system and adjusts the horizontal frequency automatically make the vertical sync signal input to pin 27 trigger. In case that the AFC pulse is not input, the output pulse from pin 17 is unlocked and the horizontal picture size changes with keeping it small.



(2) HORIZONTAL SIZE and DISTORTION CONTROL circuits

The variable B voltage control pulse synchronized with the horizontal sync signal is output from pin 14 of IC301. The horizontal size control voltage and distortion control parabolic wave output from pin 5 are input to pin 11 and then the output pulse of pin 14 controls the horizontal size and distortion as follows:

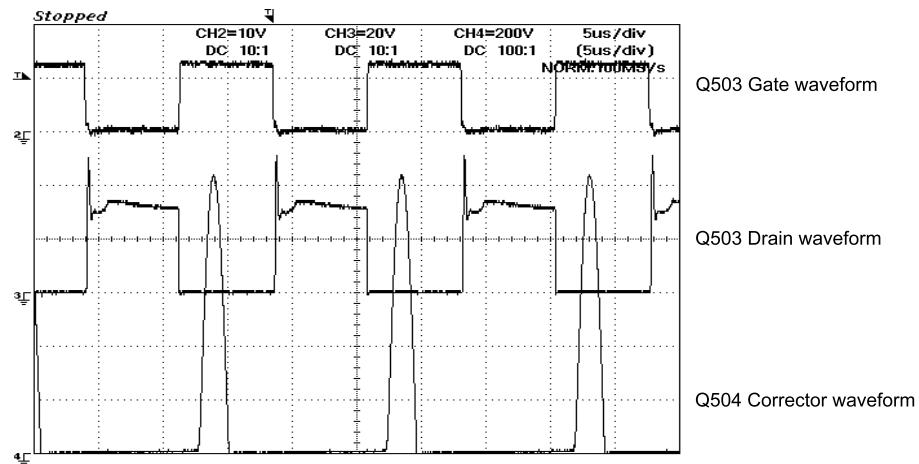
- ① H-size: The output duty of pin 14 is varied by the DC voltage input to pin 11.
- ② Distortion: The parabolic wave (AC component) input to pin 11 is synthesized with the output pulse of pin 14.



4-8. HORIZONTAL DEFLECTION circuit

The horizontal drive pulse output from pin 17 of IC301 is pre-driven by Q503 and T501 and then supplied to Q504 (H-OUT) base as a current.

The current is amplified by Q504 and then supplied to the deflection yoke as a deflection current to control the horizontal deflection.

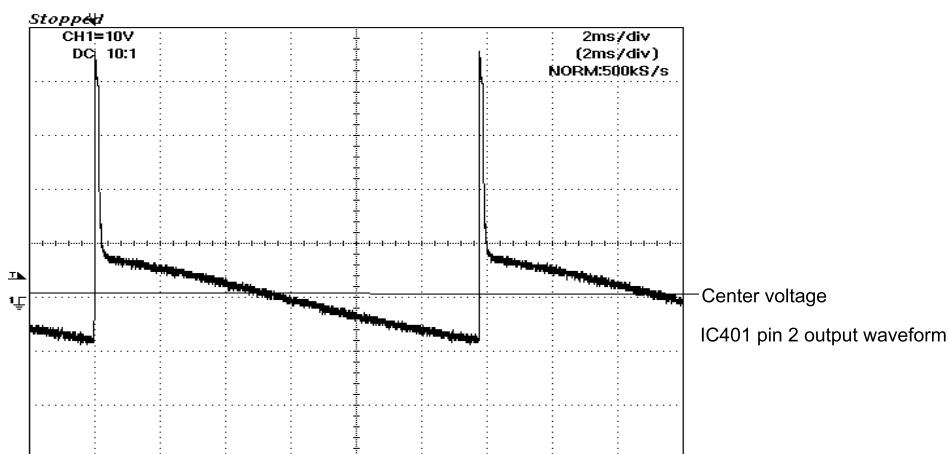


4-9. VERTICAL DEFLECTION circuit

The sawtooth wave output from pin 4 of IC301 is amplified by IC401 and then supplied to the deflection yoke as a deflection current.

V-position is controlled by changing the DC component of the sawtooth wave output from pin 4.

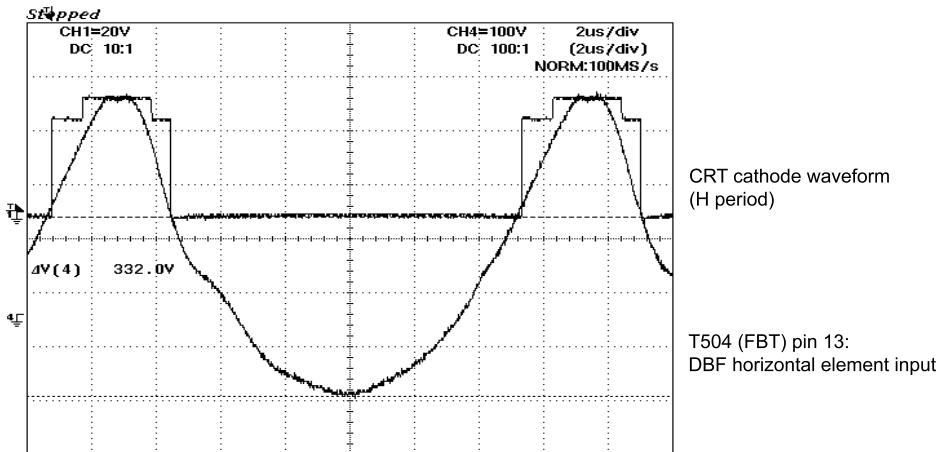
The center voltage is determined by the reference voltage input to pin 4 of IC401 and the V-sawtooth wave input to pin 5 of IC401.



4-10. DYNAMIC BEAM FOCUS (DBF) circuit

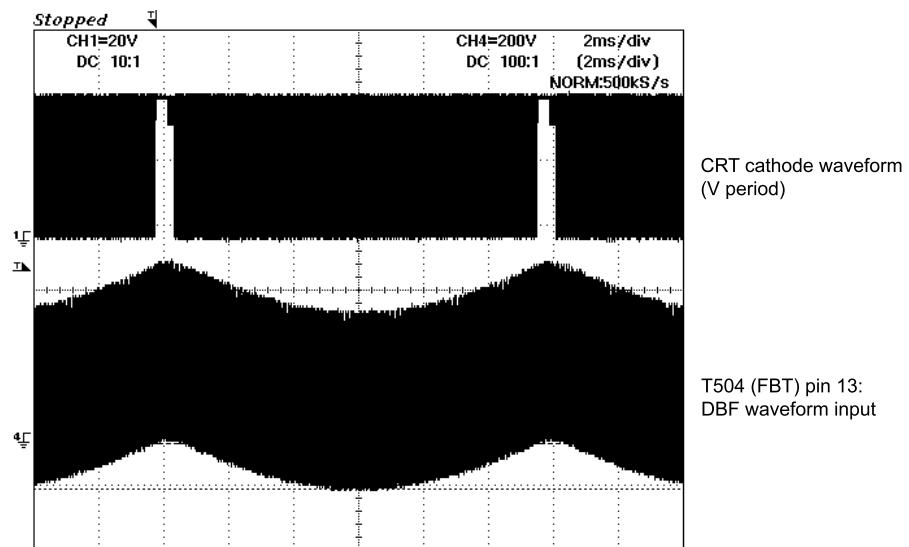
(1) H-DBF

The parabolic wave of horizontal period is output from pin 9 of IC301 and then amplified by approx. 18 times by Q518 and Q519. It increases up to approx. 500Vp-p by T503 and synthesized with V-parabolic wave and then added to the focus circuit of the FBT (flyback transformer).



(2) V-DBF

The parabolic wave of vertical period is output from pin 12 of IC350 and then amplified by approx. 100 times by Q520. It is synthesized with H-parabolic wave.



5. SERVICE PARTS LIST

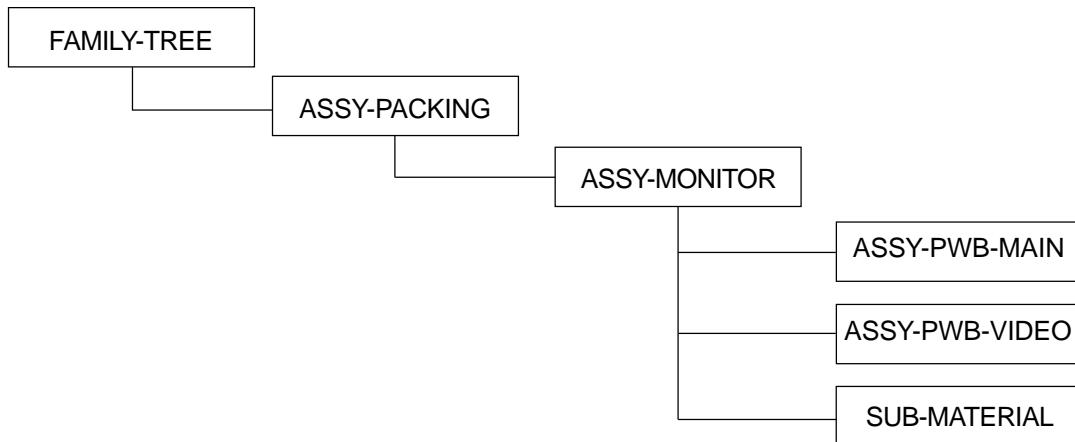
WARNING !

The components identified by “!” in this manual are critical for safety.
Replace only with part number specified .

< Contents >

	-Page-
Abbreviations and Marks.....	26
FAMILY-TREE.....	27
ASSY-PACKING.....	27
ASSY-MONITOR.....	28
ASSY-PWB-MAIN.....	29-36
ASSY-PWB-VIDEO.....	37-39
SUB-MATERIAL.....	40

< Structure >



ELECTRICAL PARTS LIST

< Abbreviations in PART section >

Abbreviation	Meaning
R-C	Resistor-Carbon
R-MB	Resistor-Metal
R-FUSE	Resistor-Fuse
C-C	Capacitor-Ceramic
C-E	Capacitor-Electrolytic
C-PP	Capacitor-Polypropylene
C-MF	Capacitor-Multilayer Metallized Polyester Film
D	Diode
ZD	Zener Diode
TR	Transistor
PHC	Photo Coupler
PTH	Positive Thermistor
HDT	Horizontal Drive Transformer
FBT	Flyback Transformer
VR	Variable Resistor
SW	Switch
SWT	Switching Transformer

< Marks in DESCRIPTION section >

< Resistor >

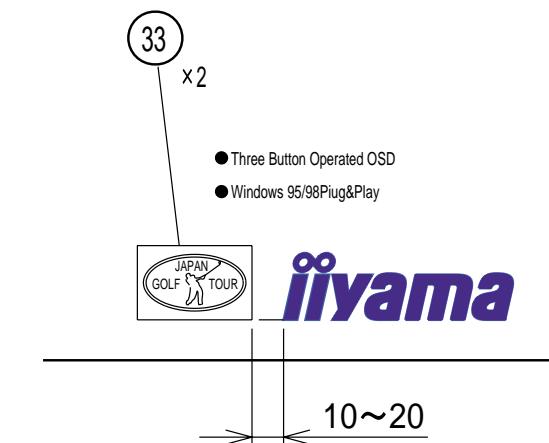
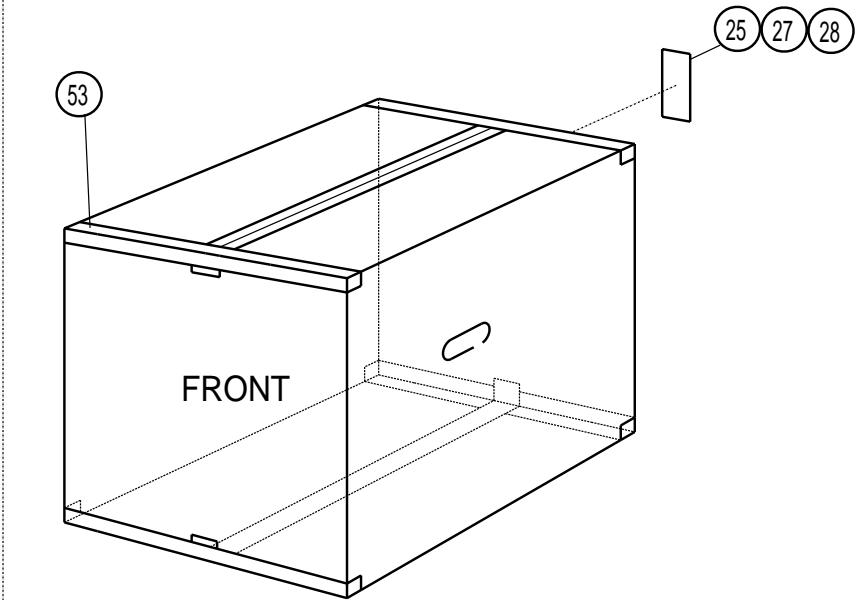
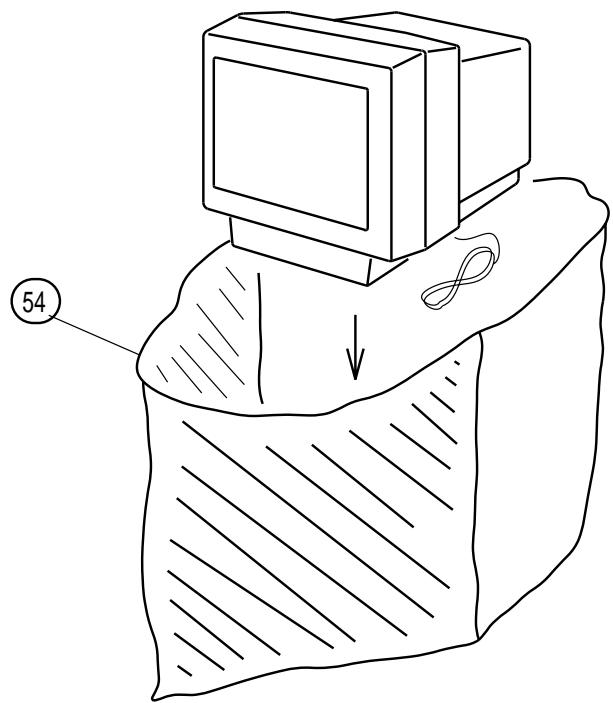
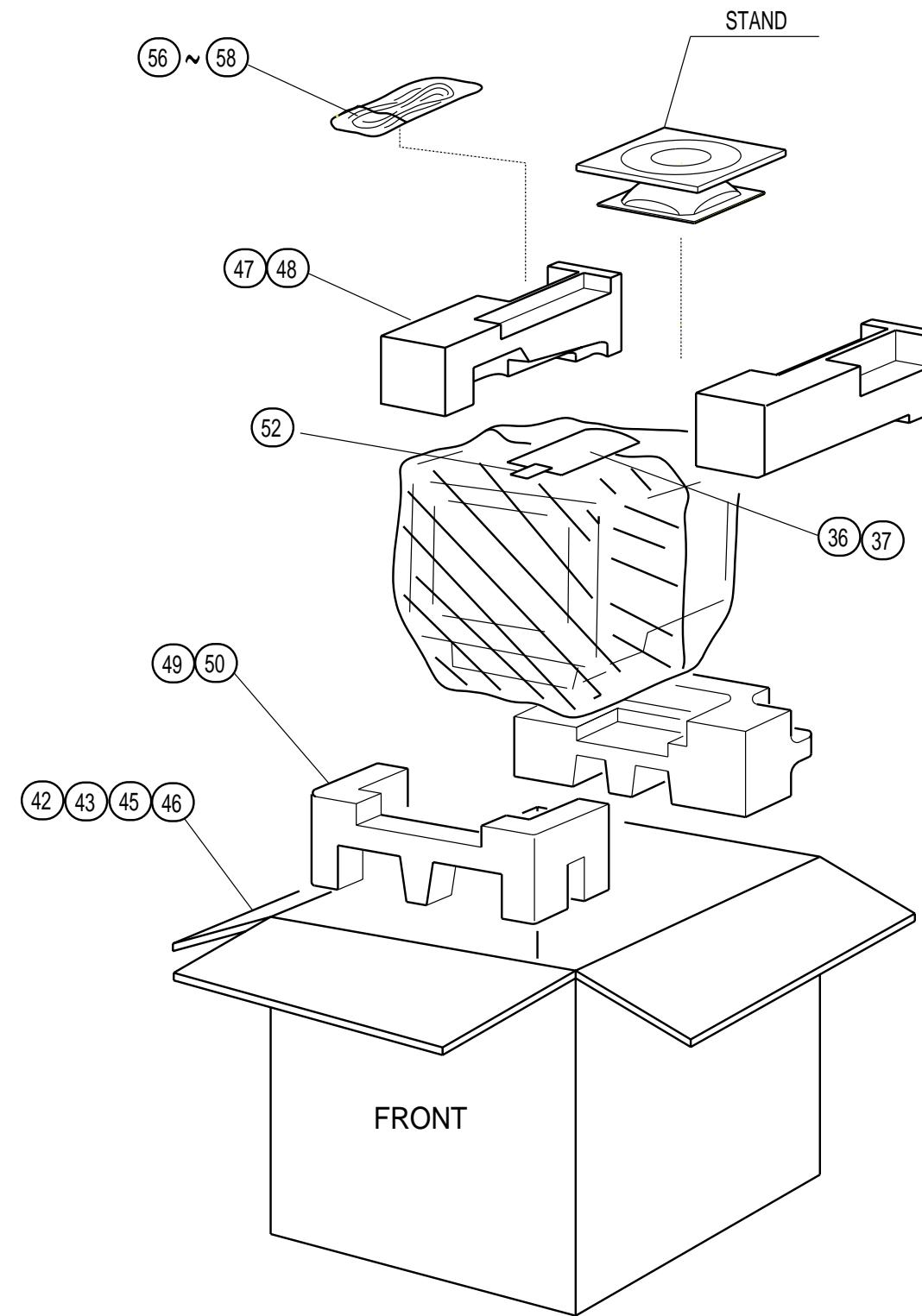
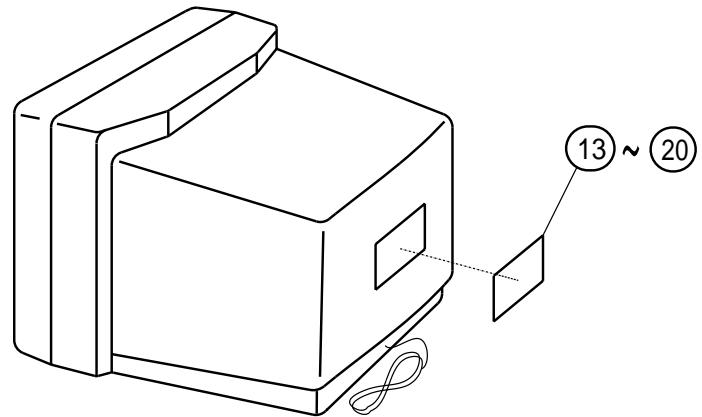
Mark	Tolerance
F	\pm 1%
J	\pm 5%
K	\pm 10%

< Capacitor >

Mark	Tolerance
H	\pm 3%
J	\pm 5%
K	\pm 10%
M	\pm 20%
P	+100%
	- 0%
Z	+ 80%
	- 20%

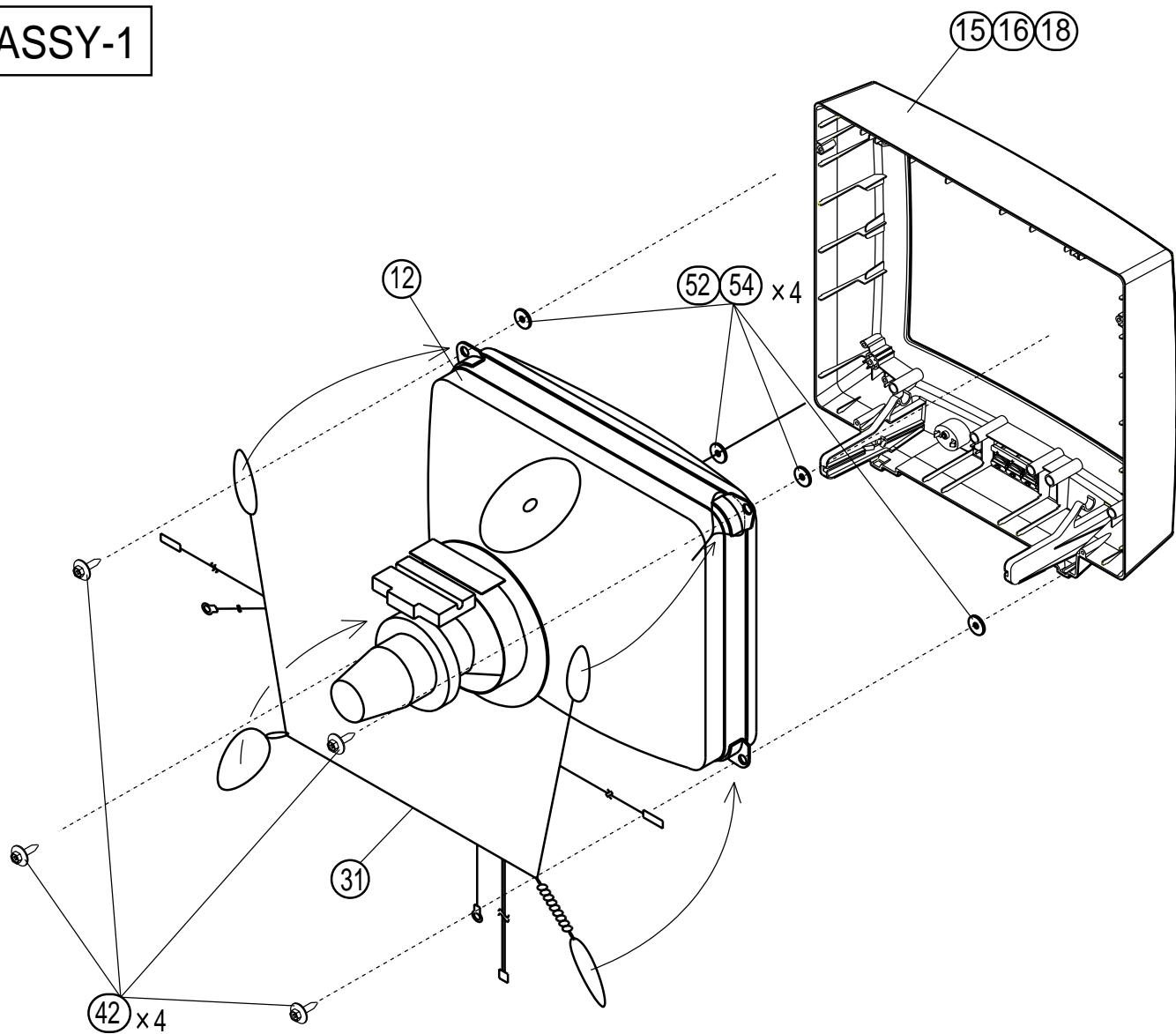
6. EXPLODED VIEW

Note: The numbers in this exploded view are the same as the reference numbers in the Chapter 5.

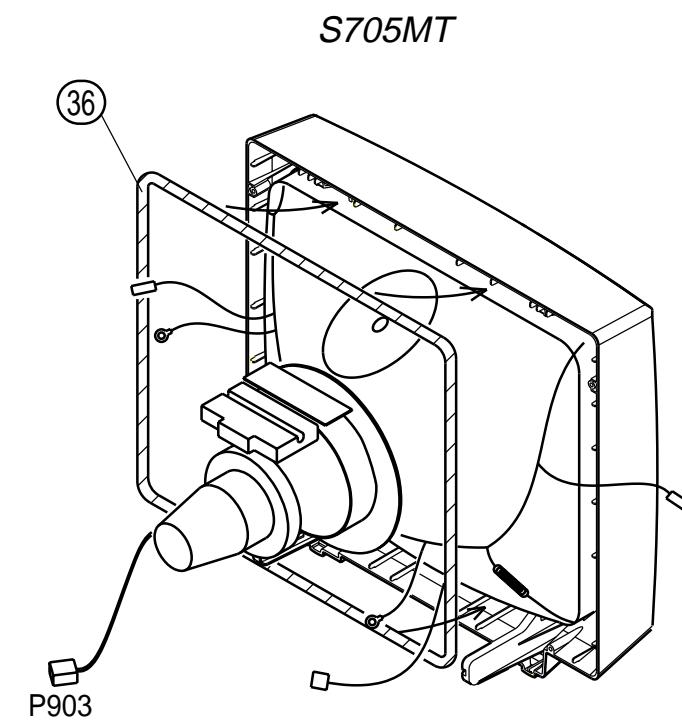


ASSY-PACKING

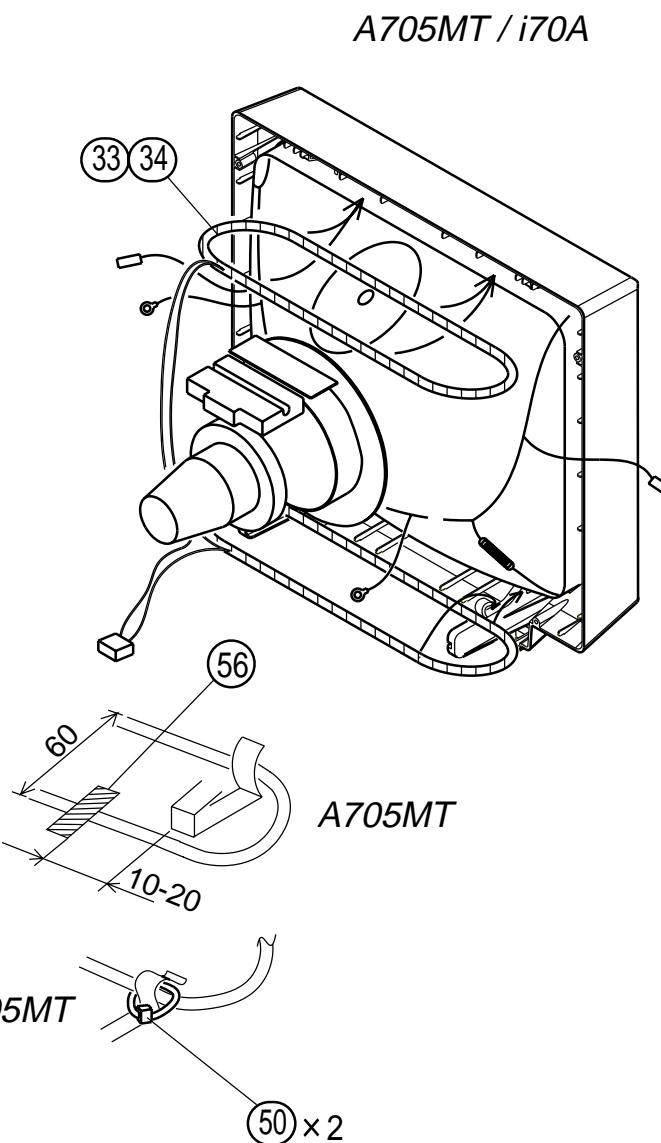
ASSY-1



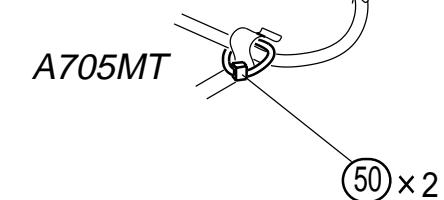
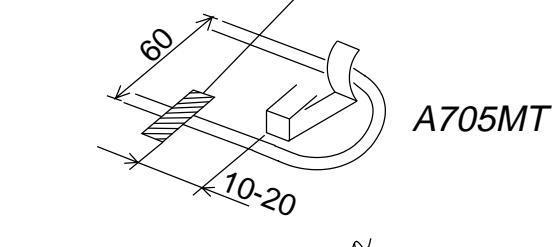
ASSY-2



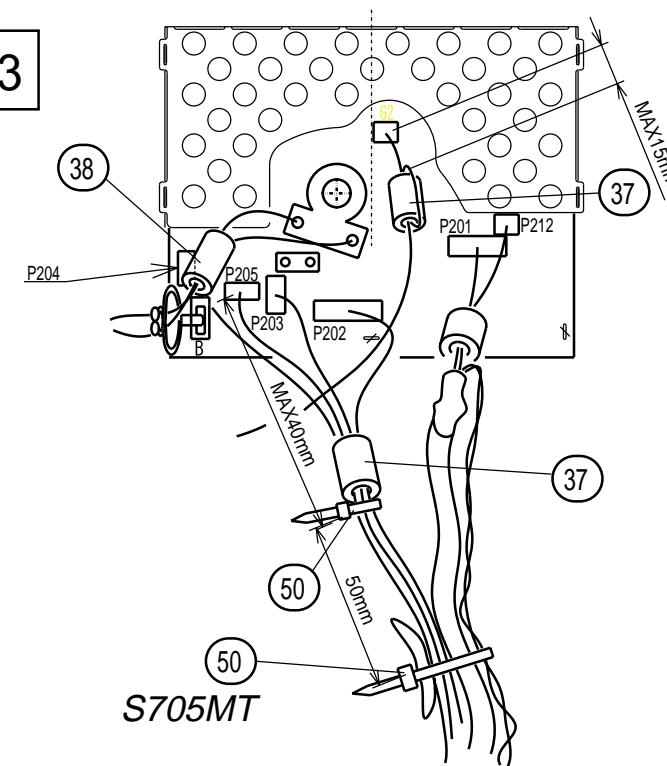
S705MT



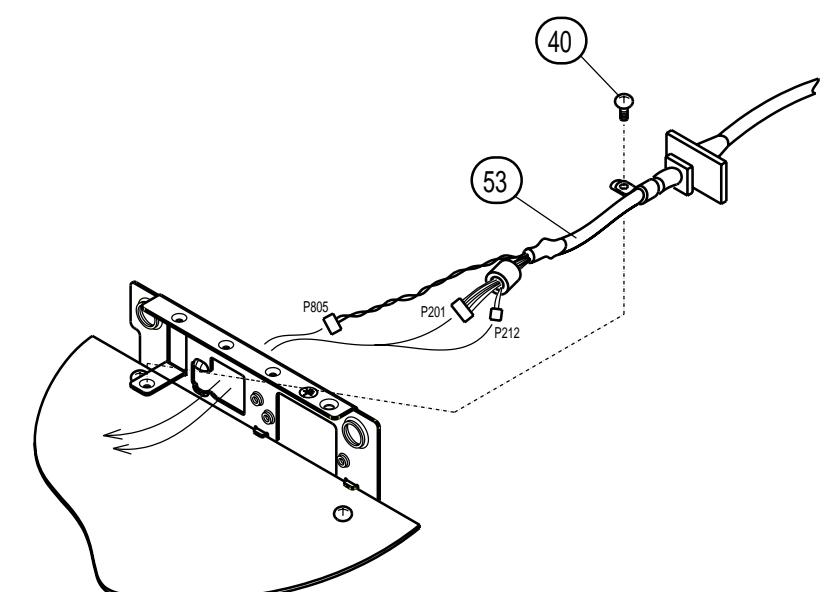
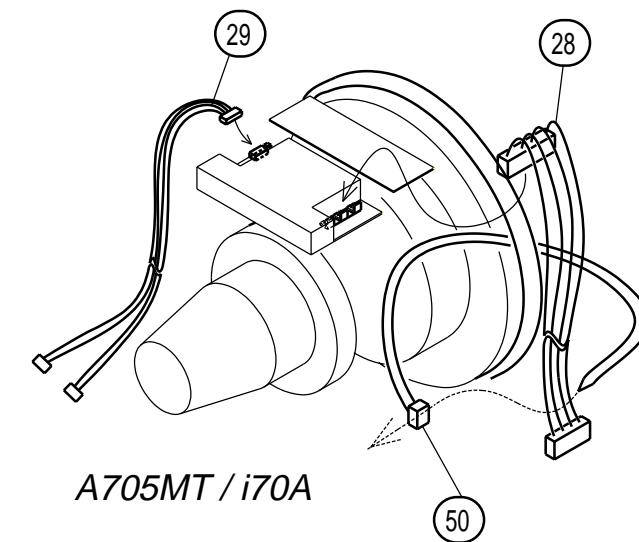
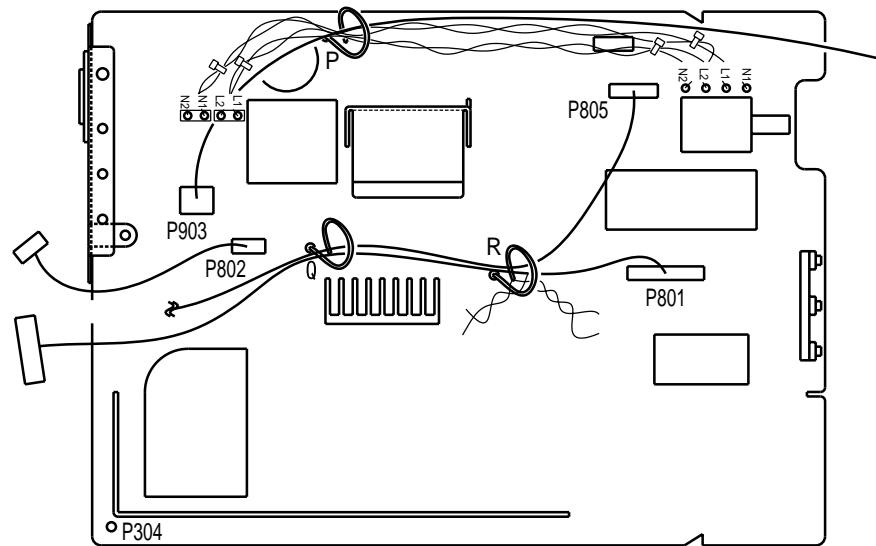
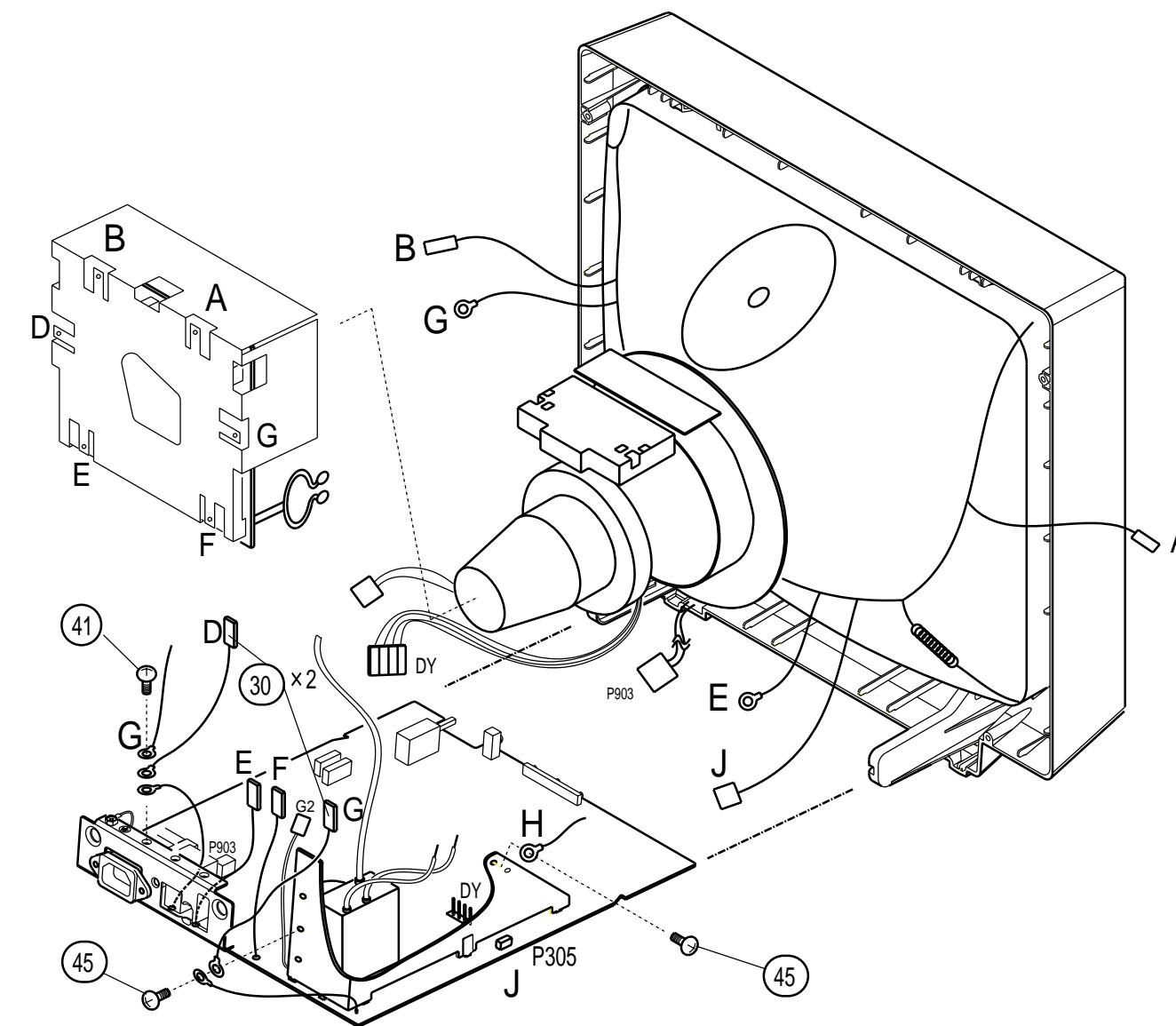
A705MT / i70A



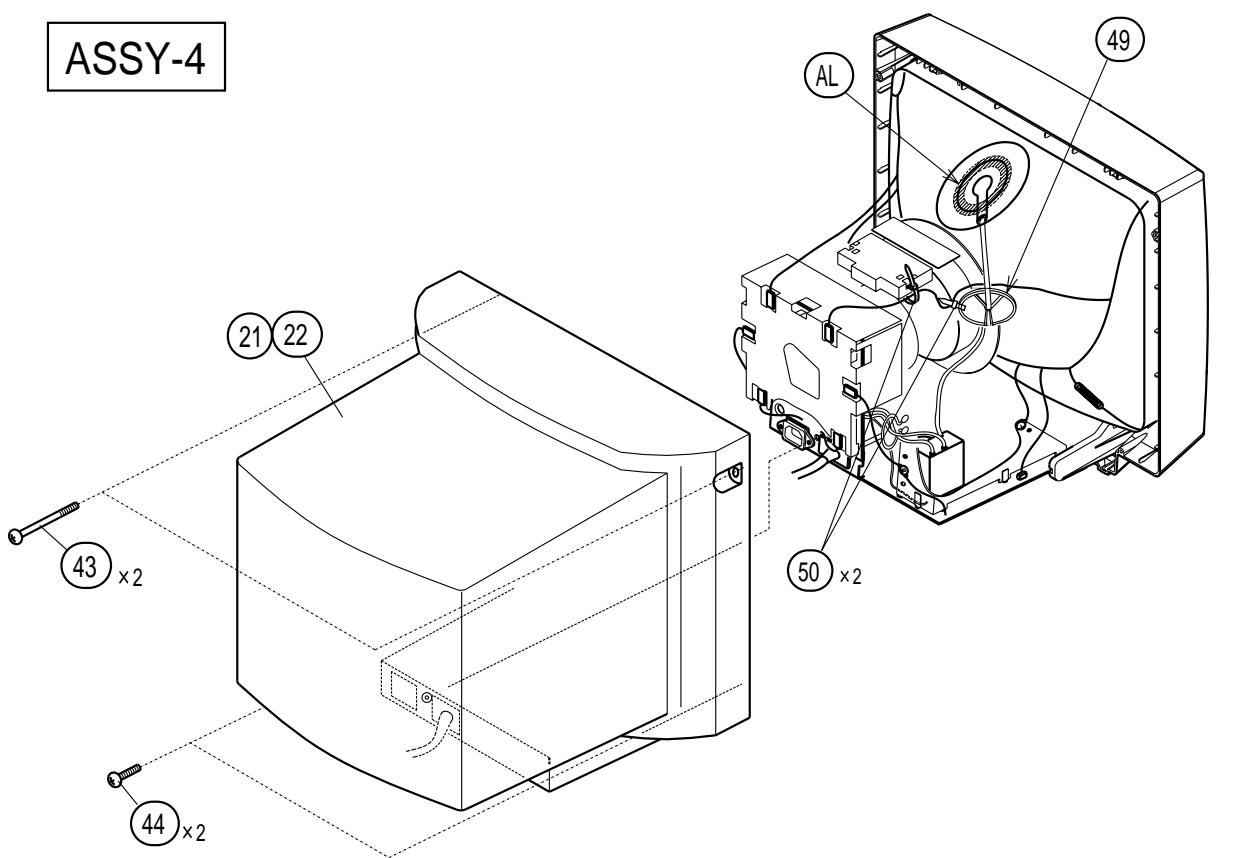
ASSY-MONITOR

ASSY-3

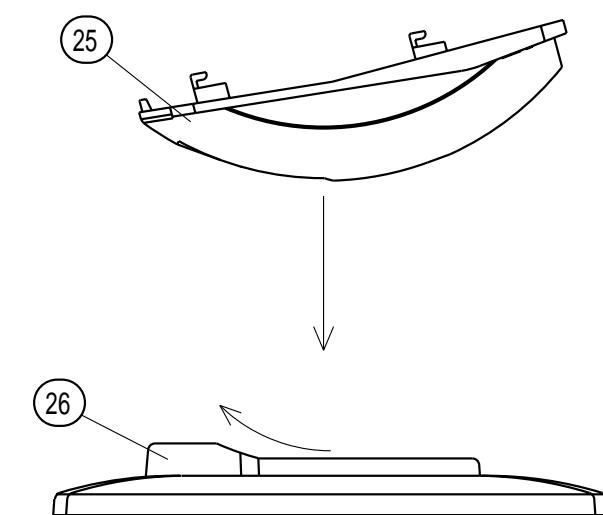
CLAMPER	LEAD-CONNECTOR
P	L1,L2,N1,N2,DG
Q	P801,P805(SIGNAL)
R	P801,P805(SIGNAL),AB
B	FOCUS-LEAD

**ASSY-MONITOR**

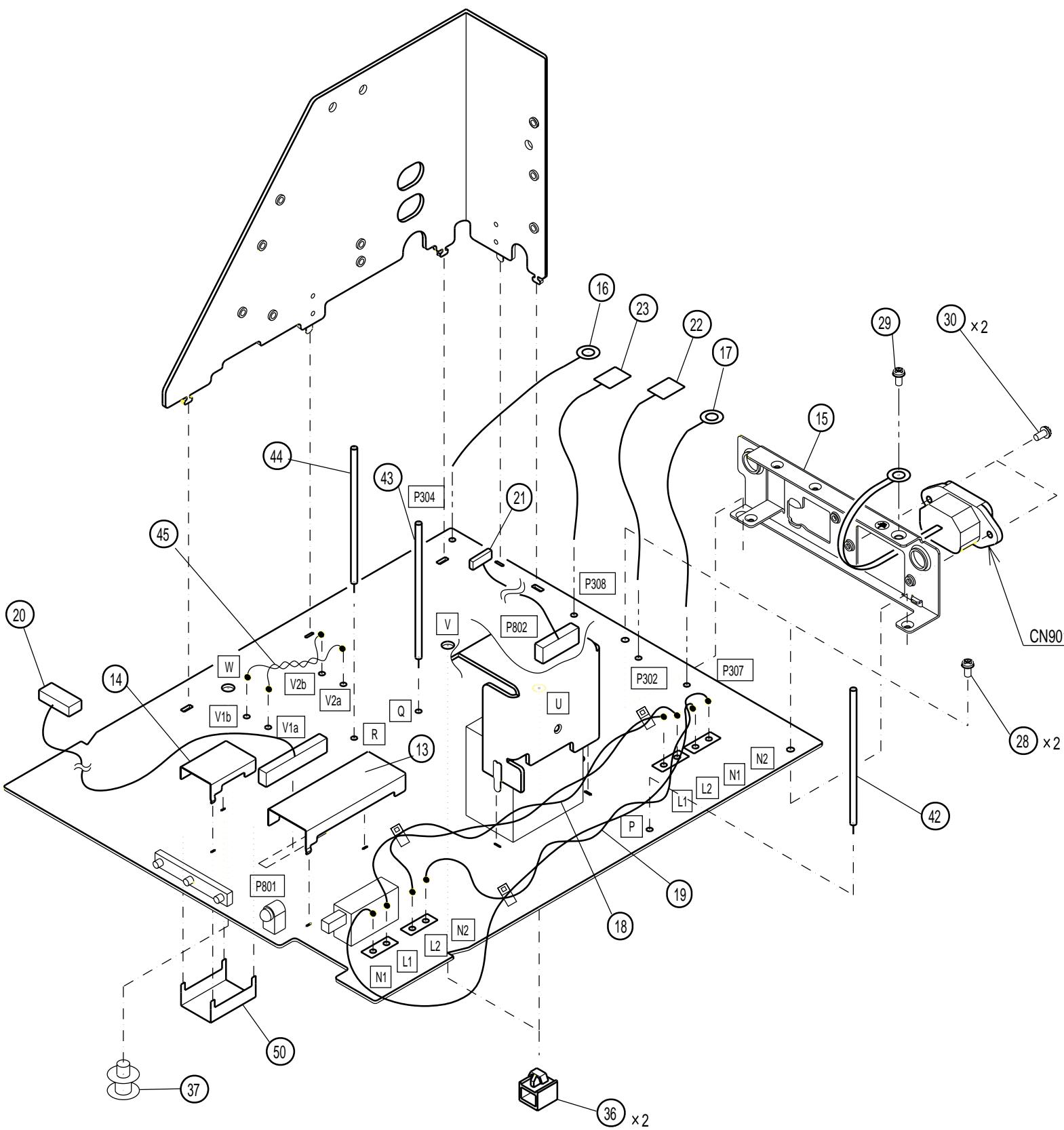
ASSY-4

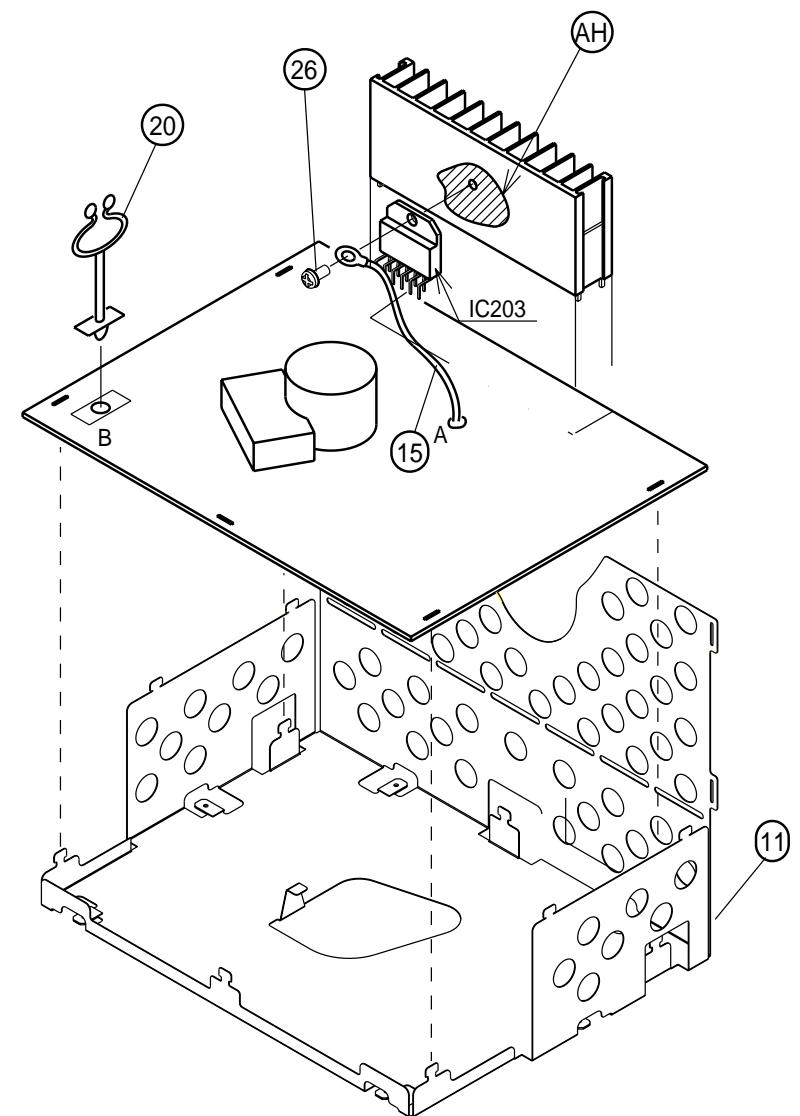


ASSY-5



ASSY-MONITOR

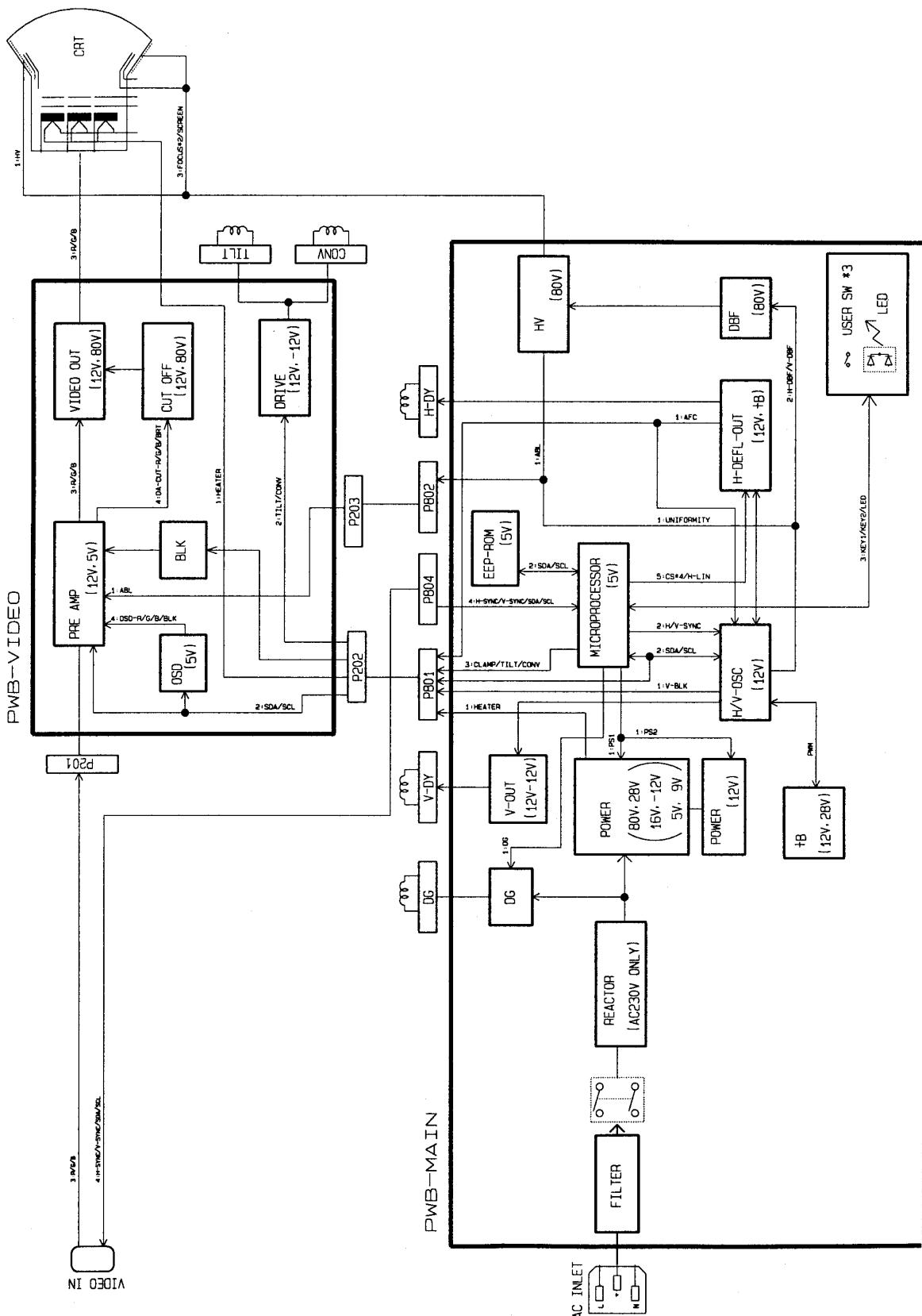


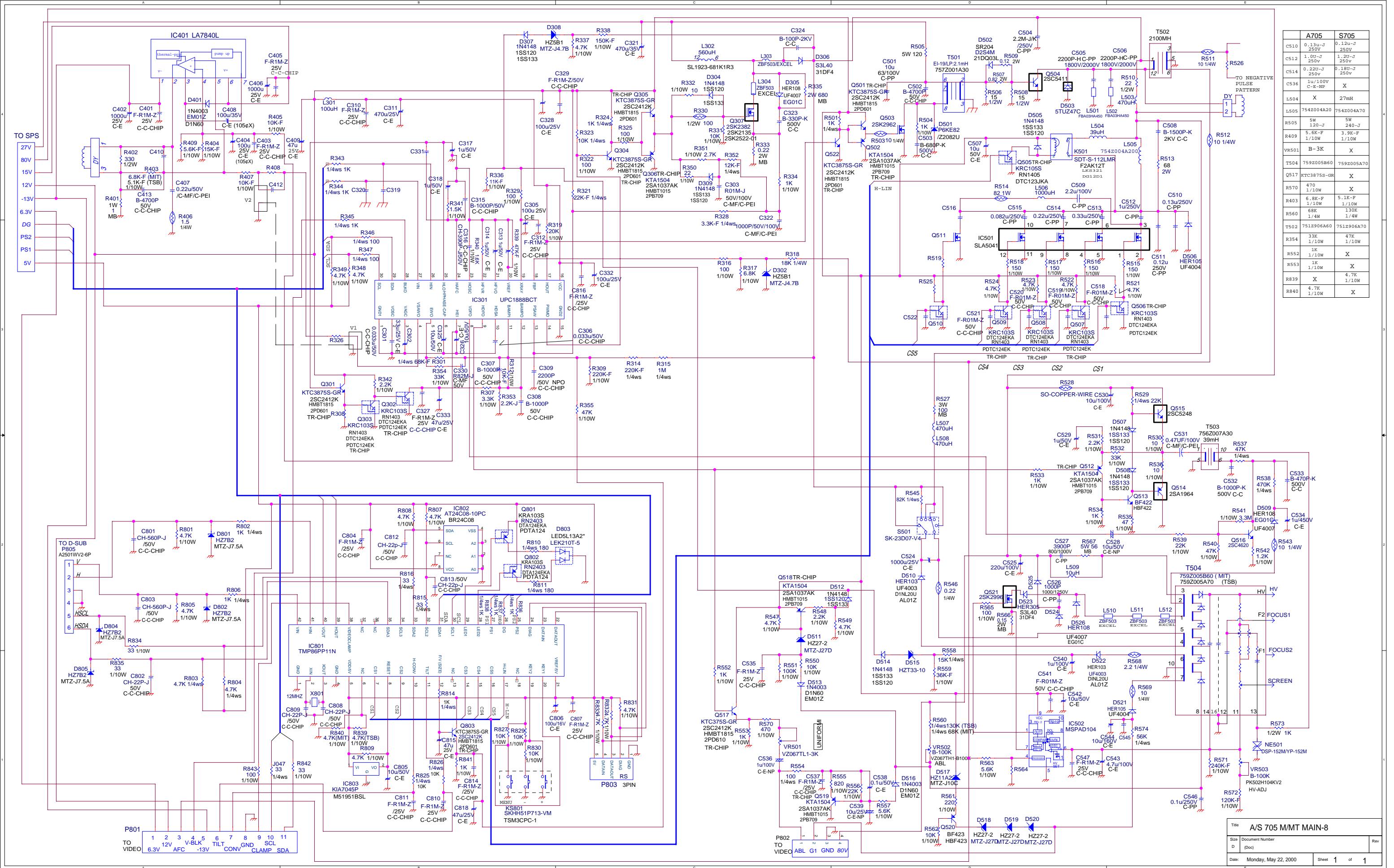


ASSY-PWB-VIDEO
- 46 -

7. DIAGRAMS

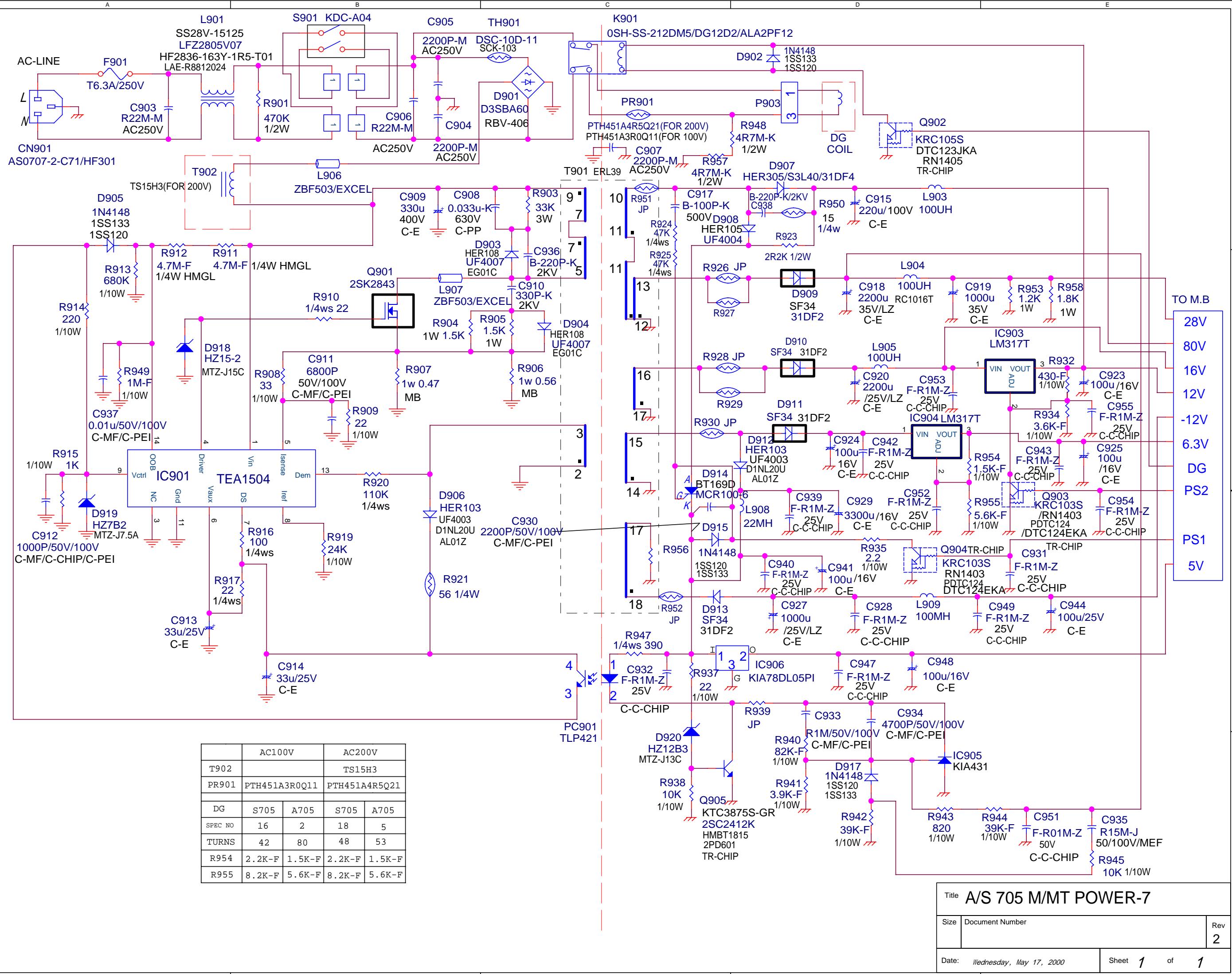
A/S705M/MT BLOCK DIAGRAMS

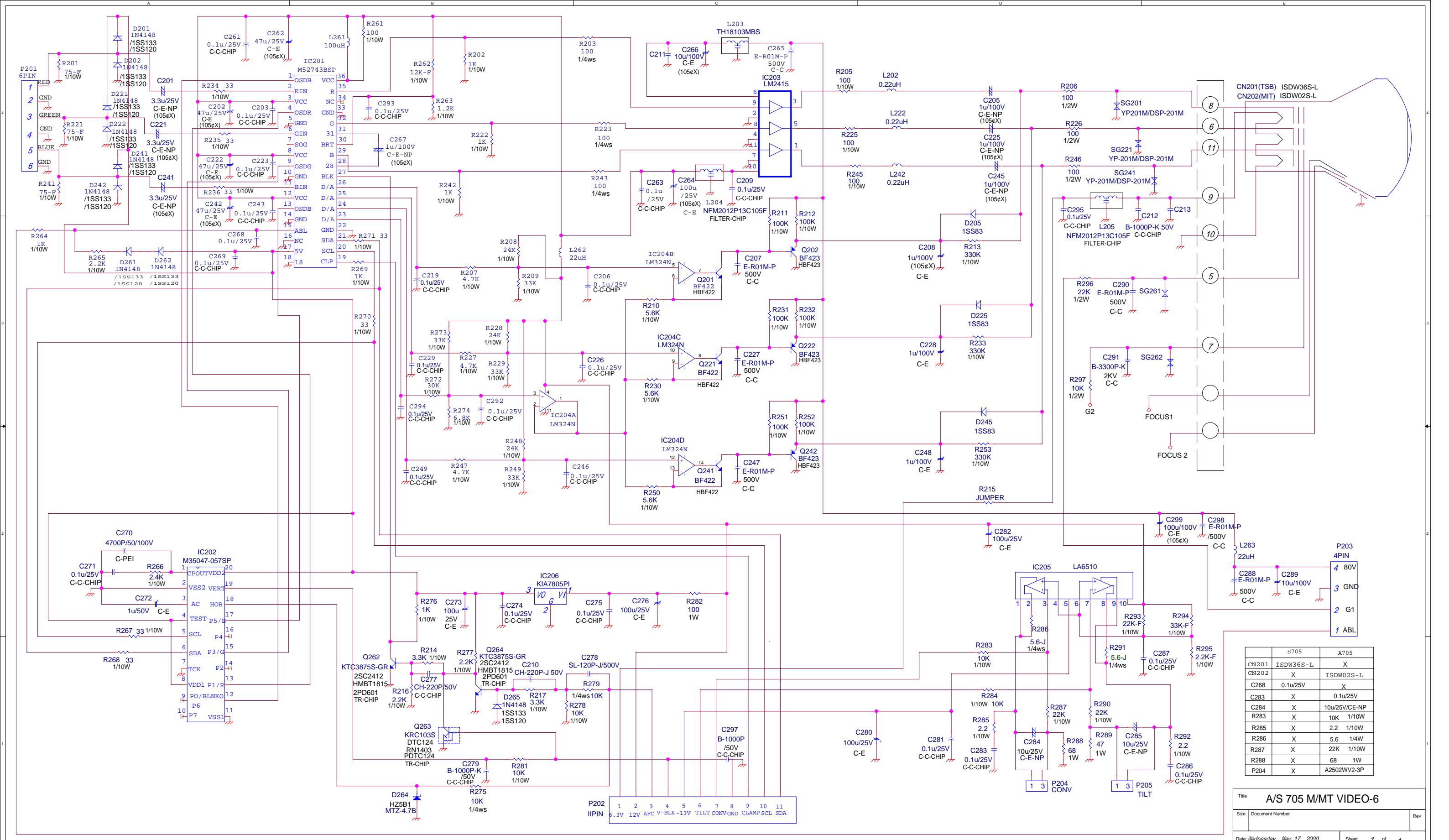




Title A/S 705 M/MT MAIN-8

Size Document Number Rev
D (Doc)
Date: Monday, May 22, 2000 Sheet 1 of 1





DWG. TITLE : FAMILY-TREE

GROUP 10: A705MT (HNE), 20: A705MT (HNB), 30: S705MT (HNE), 40: S705MT (HNB), 50: i70A

GROUP					REV.	REF.NO.	PART	DESCRIPTION	PART NO.
50	40	30	20	10					
0	0	0	0	1			ASSY-PACKING		T985T033-20
0	0	0	1	0			ASSY-PACKING		T985T033-30
0	0	0	0	1			ASSY-PACKING		T985T033-90
0	0	0	1	0			ASSY-PACKING		T985T033-11
0	0	1	0	0			ASSY-PACKING		T985T033-60
0	1	0	0	0			ASSY-PACKING		T985T033-70
0	0	1	0	0			ASSY-PACKING		T985T033-41
0	1	0	0	0			ASSY-PACKING		T985T033-51
1	0	0	0	0			ASSY-PACKING		T985T033-40
1	0	0	0	0			ASSY-PACKING		T985T033-21
0	0	0	1	1			ASSY-MONITOR		T950S097-20
0	1	1	0	0			ASSY-MONITOR		T950S097-50
1	0	0	0	0			ASSY-MONITOR		T950S097-30
0	0	0	1	1			ASSY-PWB-MAIN		T950T059-20
0	1	1	0	0			ASSY-PWB-MAIN		T950T059-50
1	0	0	0	0			ASSY-PWB-MAIN		T950T059-30
1	0	0	1	1			ASSY-PWB-VIDEO		T950V056-10
0	1	1	0	0			ASSY-PWB-VIDEO		T950V056-20
1	1	1	1	1			SUB-MATERIAL		951V001-10

DWG. TITLE : ASSY-PACKING

GROUP 10: A705MT, 20: S705MT, 30: i70A

GROUP			REV.	REF.NO.	PART	DESCRIPTION	PART NO.
30	20	10					
0	0	1		13	RATING-PLATE	(TN)	706Z027A01
0	0	1		14	RATING-PLATE	(IED)	706Z027A02
0	1	0		17	RATING-PLATE	(TN)	706Z029A01
0	1	0		18	RATING-PLATE	(IED)	706Z029A02
1	0	0		19	RATING-PLATE	(TN)	706Z032A01
1	0	0		20	RATING-PLATE	(IED)	706Z032A02
0	0	1		25	SERIAL-LABEL		851T019A02
0	1	0		27	SERIAL-LABEL		851T019A04
1	0	0		28	SERIAL-LABEL		851T019A05
2	2	2		33	LABEL		851Z018A01
0	1	1		36	OPERATION-MANUAL		870Z111A01
1	0	0		37	OPERATION-MANUAL		870Z114A01
0	1	1		42	PACKING-CASE	(TN)	800Z024A02
1	0	0		43	PACKING-CASE	(TN)	800Z024A03
0	1	1		45	PACKING-CASE	(IED)	800Z024A05
1	0	0		46	PACKING-CASE	(IED)	800Z024A06
1	0	1		47	CUSHION-TOP		803S057A01
0	1	0		48	CUSHION-TOP		803S057A03
1	0	1		49	CUSHION-BOTTOM		803S057A02
0	1	0		50	CUSHION-BOTTOM		803S057A04
#	#	#		52	SELLO-TAPE	NO.252/CT07	830Z003A01
#	#	#		53	CARTON-TAPE	NO.3201/NO.3303M/4266/123	830Z012A01
1	1	1		54	PACKING-BAG		831V016A01
0	1	1		56	AC-CORD	(HNE)	500Z005A02
1	0	0		57	AC-CORD	(LNN)	500Z006A02
0	1	1		58	AC-CORD	(HNB)	500Z007A02

DWG. TITLE : ASSY-PWB-MAIN

GROUP 10: A705MT, 20: S705MT, 30: i70A

GROUP			REV.	REF.NO.	PART	DESCRIPTION	PART NO.
30	20	10					
1	1	1		11	RADIATOR-M		590S143B01
1	1	1		12	RADIATOR-P		590V106A01
1	1	1		13	SHIELD-IC-A		590V107A01
1	1	1		14	SHIELD-IC-B		590V108A01
1	1	1		15	AC-STOP		590V105A01
1	1	1		16	LEAD-WIRE		246Z015A01
1	1	1		17	LEAD-WIRE		246Z015A01
1	1	1		18	LEAD-WIRE		246Z002A01
1	1	1		19	LEAD-WIRE		246Z003A01
1	1	1		20	LEAD-CONNECTOR		246Z005B01
1	1	1		21	LEAD-CONNECTOR		246Z006A01
1	1	1		22	LEAD-WIRE		246Z014A01
1	1	1		23	LEAD-WIRE		246Z014A01
1	1	1		24	LEAD-WIRE		246Z010A01
#	#	#		25	HEAT-SHRINK-TUBE	5*0.25	833Z003A01
4	4	4		28	SCREW	STV-SEMS-W3*6MC-S	632Z421B06
1	1	1		29	SCREW	MHA-SEMS-B4*8GR-S	630Z344C08
2	2	2		30	SCREW	BTF3*8AB-S	631Z113B08
10	10	10		31	SCREW	MP-SEMS-W3*8MC-S	630Z401B08
1	1	1		32	COOL-SHEET		222V024A01
1	1	1		33	COOL-SHEET		222V025A01
2	2	2		36	SPACER	LD-10A/LDD-10	540Z101A01
1	1	1		37	SPACER	BCMS-10	540Z106A01
1	1	1		42	LEAD-WIRE		246Z004B01
1	1	1		43	LEAD-WIRE		246Z004B01
1	1	1		44	LEAD-WIRE		246Z004B01
1	1	1		45	LEAD-WIRE		246Z012A01
1	1	1		50	SHIELD-IC-C		590V109A01
1	1	1	C301	C-C-CHIP	50V	B-R033M-K 2125	411Z333B14
1	1	1	C302	C-E	25V	33M-M	460Z330B43
1	1	1	C303	C-MF	50/100V	R01M-J	420Z103B43
1	1	1	C305	C-E	25V	100M-M	460Z101B43
1	1	1	C306	C-C-CHIP	50V	B-R033M-K 2125	411Z333B14
1	1	1	C307	C-C-CHIP	50V	B-1000P-K 2125	411Z102B14
1	1	1	C308	C-C-CHIP	50V	B-1000P-K 2125	411Z102B14
1	1	1	C309	C-C-CHIP	50V	CH-2200P-J 2125	410Z222B14
1	1	1	C310	C-C-CHIP	25V	F-R1M-Z 2125	411Z104B44
1	1	1	C311	C-E	25V	470M-M	460Z471B43
1	1	1	C312	C-C-CHIP	25V	F-R1M-Z 2125	411Z104B44
1	1	1	C314	C-E	50V	1M-M	460Z109B63
1	1	1	C315	C-C-CHIP	50V	B-1000P-K 2125	411Z102B14
1	1	1	C316	C-C-CHIP	50V	CH-390P-J 2125	410Z391B14
1	1	1	C317	C-E	50V	1M-M	460Z109B63
1	1	1	C318	C-E	50V	1M-M	460Z109B63
1	1	1	C321	C-E	35V	470M-M	460Z471B53
1	1	1	C322	C-MF	50/100V	1000P-J	420Z102B43
1	1	1	C323	C-C	500V	B-330P-K	411Z331B33
1	1	1	C324	C-C	2KV	B-100P-K	413Z101B43
1	1	1	C325	C-E	50V	10M-M	460Z100B63
1	1	1	C326	C-E	50V	10M-M	460Z100B63
1	1	1	C327	C-C-CHIP	25V	F-R1M-Z 2125	411Z104B44
1	1	1	C328	C-E	25V	100M-M	460Z101B43
1	1	1	C329	C-C-CHIP	25V	F-R1M-Z 2125	411Z104B44
1	1	1	C330	C-MF	50V	R82M-J	420Z824B13
1	1	1	C332	C-E	25V	100M-M	460Z101B43
1	1	1	C333	C-E	25V	47M-M	460Z470B43
1	1	1	C401	C-C-CHIP	25V	F-R1M-Z 2125	411Z104B44
1	1	1	C402	C-E	25V	1000M-M	460Z102B47
1	1	1	C403	C-C-CHIP	25V	F-R1M-Z 2125	411Z104B44
1	1	1	C404	C-E	25V	100M-M	470Z101G43
1	1	1	C405	C-C-CHIP	25V	F-R1M-Z 2125	411Z104B44
1	1	1	C406	C-E	25V	1000M-M	460Z102B47
1	1	1	C407	C-MF	50V	R22M-J	420Z224B43
1	1	1	C408	C-E	35V	100M-M	470Z101G53
1	1	1	C409	C-E	25V	47M-M	460Z470B43
1	1	1	C413	C-C-CHIP	50V	B-4700P-K 2125	411Z472B14

DWG. TITLE : ASSY-PWB-MAIN

GROUP 10: A705MT, 20: S705MT, 30: i70A

GROUP			REV.	REF.NO.	PART	DESCRIPTION	PART NO.
30	20	10					
1	1	1		C501	C-PP	63/100V 10M-K	425Z106B37
1	1	1		C502	C-C-CHIP	50V B-4700P-K 2125	411Z472B14
1	1	1		C503	C-C	500V B-680P-K	411Z681B33
1	1	1		C504	C-PP	250V 2R2M-J	425Z225C17
0	1	0		C505	C-PP	1800/2000V2000P-H	424Z202D47
1	0	1		C505	C-PP	1800/2000V2200P-H	424Z222D47
3	3	3		C505	EYELET		679D022A20
0	1	0		C506	C-PP	1800/2000V2000P-H	424Z202D47
1	0	1		C506	C-PP	1800/2000V2200P-H	424Z222D47
3	3	3		C506	EYELET		679D022A20
1	1	1		C507	C-E	50V 10M-M	460Z100B63
1	1	1		C508	C-C	2KV B-1500P-K	413Z152B46
1	1	1		C509	C-PP	100V 2R2M-K	425Z225B07
0	1	0		C510	C-PP	250V R12M-J	422Z124C47
1	0	1		C510	C-PP	250V R13M-J	422Z134C47
1	1	1		C511	C-PP	250V R12M-J	422Z124C47
1	0	1		C512	C-PP	250V 1M-J	422Z105C47
0	1	0		C512	C-PP	250V 1R2M-J	422Z125C47
1	1	1		C513	C-PP	250V R33M-J	422Z334C47
0	1	0		C514	C-PP	250V R18M-J	422Z184C47
1	0	1		C514	C-PP	250V R22M-J	422Z224C47
1	1	1		C515	C-PP	250V R082M-J	422Z823C47
1	1	1		C518	C-C-CHIP	50V F-R01M-Z 2125	411Z103B24
1	1	1		C519	C-C-CHIP	50V F-R01M-Z 2125	411Z103B24
1	1	1		C520	C-C-CHIP	50V F-R01M-Z 2125	411Z103B24
1	1	1		C521	C-C-CHIP	50V F-R01M-Z 2125	411Z103B24
1	1	1		C524	C-E	25V 1000M-M	460Z102B47
1	1	1		C525	C-E	100V 220M-M	460Z221B87
1	1	1		C526	C-PP	1000/1250V1000P-J	423Z102D27
1	1	1		C527	C-PP	800/1000V 3900P-J	423Z392C17
1	1	1		C528	C-E-NP	50V 10M-M	462Z100B63
1	1	1		C529	C-E	50V 1M-M	460Z109B63
1	1	1		C530	C-E	100V 10M-M	460Z100B83
1	1	1		C531	C-MF	100V R47M-J	420Z474A23
1	1	1		C532	C-C	500V B-1000P-K	411Z102B33
1	1	1		C533	C-C	500V B-470P-K	411Z471B33
1	1	1		C534	C-E	450V 1M-M	461Z109B63
1	1	1		C535	C-C-CHIP	25V F-R1M-Z 2125	411Z104B44
1	0	1		C536	C-E-NP	100V 1M-M	462Z109B83
1	1	1		C537	C-C-CHIP	25V F-R1M-Z 2125	411Z104B44
1	1	1		C538	C-E	50V R1M-M	460Z108B63
1	1	1		C539	C-E-NP	25V 10M-M	462Z100B43
1	1	1		C540	C-E	100V 1M-M	460Z109B83
1	1	1		C541	C-C-CHIP	50V F-R01M-Z 2125	411Z103B24
1	1	1		C542	C-E	50V 10M-M	460Z100B63
1	1	1		C543	C-E	100V 4R7M-M	460Z479B83
1	1	1		C544	C-E	160V 10M-M	460Z100B93
1	1	1		C546	C-PP	250V R1M-J	422Z104C47
1	1	1		C547	C-C-CHIP	25V F-R1M-Z 2125	411Z104B44
1	1	1		C801	C-C-CHIP	50V CH-560P-J 2125	410Z561B14
1	1	1		C802	C-C-CHIP	50V CH-22P-J 2125	410Z220B14
1	1	1		C803	C-C-CHIP	50V CH-560P-J 2125	410Z561B14
1	1	1		C804	C-C-CHIP	25V F-R1M-Z 2125	411Z104B44
1	1	1		C805	C-E	50V 10M-M	460Z100B63
1	1	1		C806	C-E	16V 100M-M	460Z101B33
1	1	1		C807	C-C-CHIP	25V F-R1M-Z 2125	411Z104B44
1	1	1		C808	C-C-CHIP	50V CH-22P-J 2125	410Z220B14
1	1	1		C809	C-C-CHIP	50V CH-22P-J 2125	410Z220B14
1	1	1		C810	C-C-CHIP	25V F-R1M-Z 2125	411Z104B44
1	1	1		C811	C-C-CHIP	25V F-R1M-Z 2125	411Z104B44
1	1	1		C812	C-C-CHIP	50V CH-22P-J 2125	410Z220B14
1	1	1		C813	C-C-CHIP	50V CH-22P-J 2125	410Z220B14
1	1	1		C814	C-C-CHIP	25V F-R1M-Z 2125	411Z104B44
1	1	1		C815	C-E	25V 47M-M	460Z470B43
1	1	1		C816	C-C-CHIP	25V F-R1M-Z 2125	411Z104B44
1	1	1		C818	C-E	25V 47M-M	460Z470B43

DWG. TITLE : ASSY-PWB-MAIN

GROUP 10: A705MT, 20: S705MT, 30: i70A

GROUP			REV.	REF.NO.	PART	DESCRIPTION	PART NO.
30	20	10					
1	1	1		C903	C-PP	AC250V R22M-M	510Z013A16
1	1	1		C904	C-C	AC250V 2200P-M	510Z011A26
1	1	1		C905	C-C	AC250V 2200P-M	510Z011A26
1	1	1		C906	C-PP	AC250V R22M-M	510Z013A16
1	1	1		C907	C-C	AC250V 2200P-M	510Z012A16
1	1	1		C908	C-PP	630V R033M-K	425Z333C27
1	1	1		C909	C-E	400V 330M-M	467Z580D55
1	1	1		C910	C-C	2KV B-330P-K	413Z331B43
1	1	1		C911	C-MF	50/100V 6800P-J	420Z682B43
1	1	1		C912	C-MF	50/100V 1000P-J	420Z102B43
1	1	1		C913	C-E	25V 33M-M	460Z330B43
1	1	1		C914	C-E	25V 33M-M	460Z330B43
1	1	1		C915	C-E	100V 220M-M	460Z221B87
1	1	1		C917	C-C	500V B-100P-K	411Z101B33
1	1	1		C918	C-E	35V 2200M-M	470Z222H57
1	1	1		C919	C-E	35V 1000M-M	460Z102B57
1	1	1		C920	C-E	25V 2200M-M	470Z222H47
1	1	1		C923	C-E	16V 100M-M	460Z101B33
1	1	1		C924	C-E	16V 100M-M	460Z101B33
1	1	1		C925	C-E	16V 100M-M	460Z101B33
1	1	1		C927	C-E	25V 1000M-M	470Z102H47
1	1	1		C928	C-C-CHIP	25V F-R1M-Z 2125	411Z104B44
1	1	1		C929	C-E	16V 3300M-M	460Z332B37
1	1	1		C930	C-MF	50/100V 2200P-J	420Z222B43
1	1	1		C931	C-C-CHIP	25V F-R1M-Z 2125	411Z104B44
1	1	1		C932	C-C-CHIP	25V F-R1M-Z 2125	411Z104B44
1	1	1		C933	C-MF	50/100V R1M-J	420Z104B43
1	1	1		C934	C-MF	50/100V 4700P-J	420Z472B43
1	1	1		C935	C-MF	50/100V R15M-J	420Z154B43
1	1	1		C936	C-C	2KV B-220P-K	413Z221B43
1	1	1		C937	C-MF	50/100V R01M-J	420Z103B43
1	1	1		C938	C-C	2KV B-220P-K	413Z221B43
1	1	1		C939	C-C-CHIP	25V F-R1M-Z 2125	411Z104B44
1	1	1		C940	C-C-CHIP	25V F-R1M-Z 2125	411Z104B44
1	1	1		C941	C-E	16V 100M-M	460Z101B33
1	1	1		C942	C-C-CHIP	25V F-R1M-Z 2125	411Z104B44
1	1	1		C943	C-C-CHIP	25V F-R1M-Z 2125	411Z104B44
1	1	1		C944	C-E	25V 100M-M	460Z101B43
1	1	1		C947	C-C-CHIP	25V F-R1M-Z 2125	411Z104B44
1	1	1		C948	C-E	16V 100M-M	460Z101B33
1	1	1		C949	C-C-CHIP	25V F-R1M-Z 2125	411Z104B44
1	1	1		C951	C-C-CHIP	50V F-R01M-Z 2125	411Z103B24
1	1	1		C952	C-C-CHIP	25V F-R1M-Z 2125	411Z104B44
1	1	1		C953	C-C-CHIP	25V F-R1M-Z 2125	411Z104B44
1	1	1		C954	C-C-CHIP	25V F-R1M-Z 2125	411Z104B44
1	1	1		C955	C-C-CHIP	25V F-R1M-Z 2125	411Z104B44
1	1	1		CN901	AC-INLET	0707-2-C71/HF-301	454Z011A01
3	3	3		CN901	EYELET		679D022A40
1	1	1		D302	ZD	MTZ-J4.7B/HZ5B1	742Z406A61
1	1	1		D304	D	1N4148/ISS133/ISS120	742Z001A21
1	1	1		D305	D	HER108/EG01C/UF4007	742Z024A21
1	1	1		D306	D	S3L40/31DF4	742Z036A38
1	1	1		D307	D	1N4148/ISS133/ISS120	742Z001A21
1	1	1		D308	ZD	MTZ-J4.7B/HZ5B1	742Z406A61
1	1	1		D309	D	1N4148/ISS133/ISS120	742Z001A21
1	1	1		D401	D	EM01Z/D1N60/1N4003	742Z019A31
1	1	1		D501	ZD	P6KE82/Z2082U	742Z403A31
1	1	1		D502	D	SR204/D2S4M/21DQ03L	742Z045A21
1	1	1		D503	D	5TUZ47C	742Z018A45
1	1	1		D505	D	1N4148/ISS133/ISS120	742Z001A21
1	1	1		D506	D	HER105/UF4004	742Z054A11
1	1	1		D507	D	1N4148/ISS133/ISS120	742Z001A21
1	1	1		D508	D	1N4148/ISS133/ISS120	742Z001A21
1	1	1		D509	D	HER108/EG01C/UF4007	742Z024A21
1	1	1		D510	D	HER103/UF4003/AL01Z/D1NL20U	742Z009A31
1	1	1		D511	ZD	MTZ-J27D/HZ27-2	742Z409A11

DWG. TITLE : ASSY-PWB-MAIN

GROUP 10: A705MT, 20: S705MT, 30: i70A

GROUP			REV.	REF.NO.	PART	DESCRIPTION	PART NO.
30	20	10					
1	1	1		D512	D	1N4148/1SS133/ISS120	742Z001A21
1	1	1		D513	D	EM01Z/D1N60/1N4003	742Z019A31
1	1	1		D514	D	1N4148/1SS133/ISS120	742Z001A21
1	1	1		D515	ZD	HZT33-10	742Z408A11
1	1	1		D516	D	EM01Z/D1N60/1N4003	742Z019A31
1	1	1		D517	ZD	MTZ-J10C/HZ11A2	742Z406A91
1	1	1		D518	ZD	MTZ-J27D/HZ27-2	742Z409A11
1	1	1		D519	ZD	MTZ-J27D/HZ27-2	742Z409A11
1	1	1		D520	ZD	MTZ-J27D/HZ27-2	742Z409A11
1	1	1		D521	D	HER105/UF4004	742Z054A11
1	1	1		D522	D	HER103/UF4003	742Z009A37
1	1	1		D523	D	S3L40/31DF4/HER305	742Z036A27
1	1	1		D526	D	HER108/EG01C/UF4007	742Z024A21
1	1	1		D801	ZD	MTZ-J7.5A/HZ7B2	742Z409A21
1	1	1		D802	ZD	MTZ-J7.5A/HZ7B2	742Z409A21
1	1	1		D803	LED	LEK213TX-5/LED5L13A2	742Z805A10
1	1	1		D804	ZD	MTZ-J7.5A/HZ7B2	742Z409A21
1	1	1		D805	ZD	MTZ-J7.5A/HZ7B2	742Z409A21
4	4	4		D901	EYELET		679D022A20
1	1	1		D901	D	RBV-406/D3SBA60	742Z013A16
1	1	1		D902	D	1N4148/1SS133/ISS120	742Z001A21
1	1	1		D903	D	HER108/EG01C/UF4007	742Z024A21
1	1	1		D904	D	HER108/EG01C/UF4007	742Z024A21
1	1	1		D905	D	1N4148/1SS133/ISS120	742Z001A21
1	1	1		D906	D	HER103/UF4003/AL01Z/D1NL20U	742Z009A31
1	1	1		D907	D	S3L40/31DF4/HER305	742Z036A27
1	1	1		D908	D	HER105/UF4004	742Z054A11
1	1	1		D909	D	SF34/31DF2	742Z035A25
1	1	1		D910	D	SF34/31DF2	742Z035A25
1	1	1		D911	D	SF34/31DF2	742Z035A25
1	1	1		D912	D	HER103/UF4003/AL01Z/D1NL20U	742Z009A31
1	1	1		D913	D	SF34/31DF2	742Z035A27
1	1	1		D914	SCR	BT169D/MCR100-6	745Z002A13
1	1	1		D915	D	1N4148/1SS133/ISS120	742Z001A21
1	1	1		D917	D	1N4148/1SS133/ISS120	742Z001A21
1	1	1		D918	ZD	MTZ-J15C/HZ15-2	742Z409A01
1	1	1		D919	ZD	MTZ-J7.5A/HZ7B2	742Z409A21
1	1	1		D920	ZD	MTZ-J13C/HZ12B3	742Z406A41
1	1	1		F901	FUSE	19181/UL-ET6.3A/21806.3	283Z203A60
1	1	1		IC301	IC	UPC1888BCT	741Z412A20
1	1	1		IC401	IC	LA7840L	741Z414A10
1	1	1		IC501	IC	SLA5077	741Z420A37
1	1	1		IC502	IC	MSPAD104	741Z415A20
1	1	1		IC801	IC	TMP86PP11N	741Z619B10
1	1	1		IC802	IC	24C08	741Z018A20
1	1	1		IC803	IC	M51951BSL/KIA7045P	741Z017A33
1	1	1		IC901	IC	TEA1504	741Z220A10
1	1	1		IC903	IC	LM317T	741Z526A10
1	1	1		IC904	IC	LM317T	741Z526A10
1	1	1		IC905	IC	KIA431	741Z212A43
1	1	1		IC906	IC	KIA78DL05PI	741Z527A15
1	1	1		J047	R-C	1/4W 33-J	613Z330C11
1	1	1		K501	RELAY	F2AK12T/LKS321/DG12D1/SDT12LM R	781Z004A40
4	4	4		K901	EYELET		679D022A20
1	1	1		K901	RELAY	OSA-SS-212DM5/DG12D2/ALA2PF12	781Z007A10
1	1	1		KS801	SW	SKHH51P713-VM/TSM3CPC1	129Z035A10
1	1	1		L301	COIL-CHOKE	100MH	750Z602A21
2	2	2		L302	EYELET		679D022A20
1	1	1		L302	COIL-CHOKE	680MH	751Z915A10
1	1	1		L303	FERRITE-BEADS	ZBF503/EXCEL	750Z906A13
1	1	1		L304	FERRITE-BEADS	ZBF503/EXCEL	750Z906A13
1	1	1		L501	FERRITE-BEADS	FBA03HA450	750Z903A11
1	1	1		L502	FERRITE-BEADS	FBA03HA450	750Z903A11
1	1	1		L503	COIL-CHOKE	470MH	751Z308A46

DWG. TITLE : ASSY-PWB-MAIN

GROUP 10: A705MT, 20: S705MT, 30: i70A

GROUP			REV.	REF.NO.	PART	DESCRIPTION	PART NO.
30	20	10					
1	0	1		L504	COIL-CHOKE	39MH	751Z611A20
0	1	0		L504	COIL-CHOKE	27MH	751Z613A20
2	2	2		L505	EYELET		679D022A20
1	0	1		L505	COIL-H-LIN		754Z004A20
0	1	0		L505	COIL-H-LIN		754Z004A70
1	1	1		L506	COIL-CHOKE	1000MH	751Z308A56
1	1	1		L507	COIL-CHOKE	470MH	751Z308A46
1	1	1		L508	COIL-CHOKE	470MH	751Z308A46
1	1	1		L509	COIL-CHOKE	10MH	751Z308A16
1	1	1		L510	FERRITE-BEADS	ZBF503/EXCEL	750Z906A13
1	1	1		L511	FERRITE-BEADS	ZBF503/EXCEL	750Z906A13
1	1	1		L512	FERRITE-BEADS	ZBF503/EXCEL	750Z906A13
4	4	4		L901	EYELET		679D022A20
1	1	1		L901	LINE-FILTER	SS28V/LFZ28/HF28/753Z011-30	753Z011A30
1	1	1		L903	COIL-CHOKE	100MH	751Z308A36
1	1	1		L904	COIL-CHOKE	100MH	751Z609A20
1	1	1		L905	COIL-CHOKE	100MH	751Z308A36
1	1	1		L906	FERRITE-BEADS	ZBF503/EXCEL	750Z906A13
1	1	1		L907	FERRITE-BEADS	ZBF503/EXCEL	750Z906A13
1	1	1		L908	COIL-CHOKE	22MH	751Z308A26
1	1	1		L909	COIL-CHOKE	100MH	751Z308A36
1	1	1		NE501	NEON-LAMP	DSP-152M/YP-152M	789Z001A61
1	1	1		P305	CONNECTOR	A2501WV2-2P	452Z029A10
1	1	1		P803	CONNECTOR	A2501WV2-5P	452Z029D10
1	1	1		P805	CONNECTOR	A2501WV2-6P	452Z029E10
1	1	1		P903	CONNECTOR	A3963WV2-3P-2NC	452Z030K10
1	1	1		PC901	PHC	TLP421	743Z001A40
2	2	2		PR901	EYELET		679D022A20
1	0	0		PR901	PTH	AC140V 3R0 PTH451	782Z003A20
0	1	1		PR901	PTH	AC270V 4R5 PTH451	782Z006A20
1	1	1		Q301	TR-CHIP	BT1815/2SC2412/KTC3875/2PD601	740Z151A34
1	1	1		Q302	TR-CHIP	KRC103/DTC124/RN1403/PDTC124	740Z654A34
1	1	1		Q303	TR-CHIP	KRC103/DTC124/RN1403/PDTC124	740Z654A34
1	1	1		Q304	TR-CHIP	BT1815/2SC2412/KTC3875/2PD601	740Z151A34
1	1	1		Q305	TR-CHIP	BT1815/2SC2412/KTC3875/2PD601	740Z151A34
1	1	1		Q306	TR-CHIP	BT1015/2SA1037/KTA1504/2PB709	740Z001A34
1	1	1		Q307	TR	2SK2522/2SK2135/2SK2382	740Z461A17
1	1	1		Q501	TR-CHIP	BT1815/2SC2412/KTC3875/2PD601	740Z151A34
1	1	1		Q502	TR-CHIP	BT1015/2SA1037/KTA1504/2PB709	740Z001A34
1	1	1		Q503	TR	2SK2962	740Z467A13
1	1	1		Q504	EYELET		679D022A20
1	1	1		Q504	TR	2SC5411	740Z174A15
1	1	1		Q505	TR-CHIP	KRC105S/DTC123JKA/RN1405	740Z665A14
1	1	1		Q506	TR-CHIP	KRC103/DTC124/RN1403/PDTC124	740Z654A34
1	1	1		Q507	TR-CHIP	KRC103/DTC124/RN1403/PDTC124	740Z654A34
1	1	1		Q508	TR-CHIP	KRC103/DTC124/RN1403/PDTC124	740Z654A34
1	1	1		Q509	TR-CHIP	KRC103/DTC124/RN1403/PDTC124	740Z654A34
1	1	1		Q512	TR-CHIP	BT1015/2SA1037/KTA1504/2PB709	740Z001A34
1	1	1		Q513	TR	BF422/HBF422	740Z163A23
1	1	1		Q514	TR	2SA1964	740Z009A10
1	1	1		Q515	TR	2SC5248	740Z165A10
1	1	1		Q516	TR	2SC4620	740Z173A13
1	0	1		Q517	TR-CHIP	BT1815/2SC2412/KTC3875/2PD601	740Z151A34
1	1	1		Q518	TR-CHIP	BT1015/2SA1037/KTA1504/2PB709	740Z001A34
1	1	1		Q519	TR-CHIP	BT1015/2SA1037/KTA1504/2PB709	740Z001A34

DWG. TITLE : ASSY-PWB-MAIN

GROUP 10: A705MT, 20: S705MT, 30: i70A

GROUP			REV.	REF.NO.	PART	DESCRIPTION	PART NO.
30	20	10					
1	1	1		Q520	TR	BF423/HBF423	740Z176A13
1	1	1		Q521	EYELET		679D022A20
1	1	1		Q521	TR	2SK2996	740Z463A15
1	1	1		Q522	TR-CHIP	BT1815/2SC2412/KTC3875/2PD601	740Z151A34
1	1	1		Q801	TR-CHIP	KRA103/DTA124/RN2403/PDTA124	740Z661A34
1	1	1		Q802	TR-CHIP	KRA103/DTA124/RN2403/PDTA124	740Z661A34
1	1	1		Q803	TR-CHIP	BT1815/2SC2412/KTC3875/2PD601	740Z151A34
1	1	1		Q901	EYELET		679D022A20
1	1	1		Q901	TR	2SK2843	740Z468A15
1	1	1		Q902	TR-CHIP	KRC105S/DTC123JKA/RN1405	740Z665A14
1	1	1		Q903	TR-CHIP	KRC103/DTC124/RN1403/PDTC124	740Z654A34
1	1	1		Q904	TR-CHIP	KRC103/DTC124/RN1403/PDTC124	740Z654A34
1	1	1		Q905	TR-CHIP	BT1815/2SC2412/KTC3875/2PD601	740Z151A34
1	1	1		R301	R-MB	1/4W 68K-F	615Z683B11
1	1	1		R307	R-M-CHIP	1/10W 3R3K-J 2125	613Z332C24
1	1	1		R309	R-M-CHIP	1/10W 220K-F 2125	613Z224C54
1	1	1		R312	R-M-CHIP	1/10W 10K-F 2125	613Z103C54
1	1	1		R314	R-MB	1/4W 220K-F	615Z224B11
1	1	1		R315	R-C	1/4W 1M-J	613Z105C11
1	1	1		R316	R-M-CHIP	1/10W 100-J 2125	613Z101C24
1	1	1		R317	R-M-CHIP	1/10W 6R8K-J 2125	613Z682C24
1	1	1		R318	R-C	1/4W 18K-J	613Z183C11
1	1	1		R319	R-M-CHIP	1/10W 20K-J 2125	613Z203C24
1	1	1		R321	R-MB	1/4W 22K-F	615Z223B11
1	1	1		R322	R-M-CHIP	1/10W 100-J 2125	613Z101C24
1	1	1		R323	R-C	1/4W 10K-J	613Z103C11
1	1	1		R324	R-C	1/4W 1K-J	613Z102C11
1	1	1		R325	R-M-CHIP	1/10W 100-J 2125	613Z101C24
1	1	1		R328	R-MB	1/4W 3R3K-F	615Z332B11
1	1	1		R329	R-M-CHIP	1/10W 100-J 2125	613Z101C24
1	1	1		R330	R-FUSE	1/2W 100-J	614Z101A71
1	1	1		R331	R-M-CHIP	1/10W 10K-J 2125	613Z103C24
1	1	1		R332	R-M-CHIP	1/10W 10-J 2125	613Z100C24
1	1	1		R333	R-MB	2W R22-J	612Z228C37
1	1	1		R334	R-M-CHIP	1/10W 1K-J 2125	613Z102C24
1	1	1		R335	R-MB	2W 680-J	612Z681C37
1	1	1		R336	R-M-CHIP	1/10W 11K-F 2125	613Z113C54
1	1	1		R337	R-M-CHIP	1/10W 4R7K-J 2125	613Z472C24
1	1	1		R338	R-M-CHIP	1/10W 150K-F 2125	613Z154C54
1	1	1		R339	R-M-CHIP	1/10W 47K-F 2125	613Z473C54
1	1	1		R340	R-M-CHIP	1/10W 1R6K-J 2125	613Z162C24
1	1	1		R341	R-M-CHIP	1/10W 1R5K-J 2125	613Z152C24
1	1	1		R342	R-M-CHIP	1/10W 2R2K-J 2125	613Z222C24
1	1	1		R343	R-C	1/4W 1K-J	613Z102C11
1	1	1		R344	R-C	1/4W 1K-J	613Z102C11
1	1	1		R345	R-C	1/4W 1K-J	613Z102C11
1	1	1		R346	R-C	1/4W 100-J	613Z101C11
1	1	1		R347	R-C	1/4W 100-J	613Z101C11
1	1	1		R348	R-M-CHIP	1/10W 4R7K-J 2125	613Z472C24
1	1	1		R349	R-M-CHIP	1/10W 4R7K-J 2125	613Z472C24
1	1	1		R350	R-M-CHIP	1/10W 22-J 2125	613Z220C24
1	1	1		R351	R-M-CHIP	1/10W 2R7K-J 2125	613Z272C24
1	1	1		R352	R-MB	1/4W 12K-F	615Z123B11
1	0	1		R354	R-M-CHIP	1/10W 33K-J 2125	613Z333C24
0	1	0		R354	R-M-CHIP	1/10W 47K-J 2125	613Z473C24
1	1	1		R355	R-M-CHIP	1/10W 47K-J 2125	613Z473C24
1	1	1		R401	R-MB	1W 1-J	612Z109C27
1	1	1		R402	R-C	1/2W 330-J	613Z331C81
0	1	0		R403	R-M-CHIP	1/10W 5R1K-F 2125	613Z512C54
1	0	1		R403	R-M-CHIP	1/10W 6R8K-F 2125	613Z682C54
1	1	1		R404	R-M-CHIP	1/10W 15K-F 2125	613Z153C54

DWG. TITLE : ASSY-PWB-MAIN

GROUP 10: A705MT, 20: S705MT, 30: i70A

GROUP			REV.	REF.NO.	PART	DESCRIPTION			PART NO.
30	20	10				1/10W	10K-F	2125	
1	1	1		R405	R-M-CHIP	1/10W	10K-F	2125	613Z103C54
1	1	1		R406	R-FUSE	1/4W	1R5-J		614Z159A61
1	1	1		R407	R-M-CHIP	1/10W	10K-F	2125	613Z103C54
0	1	0		R409	R-M-CHIP	1/10W	3R9K-F	2125	613Z392C54
1	0	1		R409	R-M-CHIP	1/10W	5R6K-F	2125	613Z562C54
1	1	1		R501	R-C	1/4W	1K-J		613Z102C11
1	1	1		R503	R-FUSE	1/4W	10-J		614Z100A61
1	1	1		R504	R-M-CHIP	1/10W	1K-J	2125	613Z102C24
1	0	1		R505	R-MB	5W	120-J		612Z121C57
0	1	0		R505	R-MB	5W	240-J		612Z241C57
1	1	1		R506	R-C	1/2W	15-J		613Z150C81
1	1	1		R507	R-MB	2W	R82-J		612Z828C37
1	1	1		R508	R-C	1/2W	15-J		613Z150C81
1	1	1		R509	R-MB	2W	R12-J		612Z128C37
1	1	1		R510	R-C	1/2W	22-J		613Z220C81
1	1	1		R511	R-FUSE	1/4W	10-J		614Z100A61
1	1	1		R512	R-FUSE	1/4W	10-J		614Z100A61
1	1	1		R513	R-MB	2W	68-J		612Z680C37
1	1	1		R514	R-MB	1W	82-J		612Z820C27
1	1	1		R515	R-M-CHIP	1/10W	150-J	2125	613Z151C24
1	1	1		R516	R-M-CHIP	1/10W	150-J	2125	613Z151C24
1	1	1		R517	R-M-CHIP	1/10W	150-J	2125	613Z151C24
1	1	1		R518	R-M-CHIP	1/10W	150-J	2125	613Z151C24
1	1	1		R521	R-M-CHIP	1/10W	4R7K-J	2125	613Z472C24
1	1	1		R522	R-M-CHIP	1/10W	4R7K-J	2125	613Z472C24
1	1	1		R523	R-M-CHIP	1/10W	4R7K-J	2125	613Z472C24
1	1	1		R524	R-M-CHIP	1/10W	4R7K-J	2125	613Z472C24
1	1	1		R527	R-MB	3W	100-J		612Z101C48
1	1	1		R528	SO-COPPER-WIRE				990P003A1
1	1	1		R529	R-C	1/4W	22K-J		613Z223C11
1	1	1		R530	R-M-CHIP	1/10W	10-J	2125	613Z100C24
1	1	1		R531	R-M-CHIP	1/10W	2R2K-J	2125	613Z222C24
1	1	1		R532	R-M-CHIP	1/10W	33K-J	2125	613Z333C24
1	1	1		R533	R-M-CHIP	1/10W	1K-J	2125	613Z102C24
1	1	1		R534	R-M-CHIP	1/10W	1K-J	2125	613Z102C24
1	1	1		R535	R-M-CHIP	1/10W	47-J	2125	613Z470C24
1	1	1		R536	R-M-CHIP	1/10W	10-J	2125	613Z100C24
1	1	1		R537	R-C	1/4W	47K-J		613Z473C11
1	1	1		R538	R-C	1/4W	470K-J		613Z474C11
1	1	1		R539	R-M-CHIP	1/10W	22K-J	2125	613Z223C24
1	1	1		R540	R-M-CHIP	1/10W	47K-J	2125	613Z473C24
1	1	1		R541	R-M-CHIP	1/10W	3R3M-J	2125	613Z335C24
1	1	1		R542	R-M-CHIP	1/10W	1R2K-J	2125	613Z122C24
1	1	1		R543	R-FUSE	1/4W	10-J		614Z100A61
1	1	1		R544	R-M-CHIP	1/8W	ZERO	3216	613Z999B34
1	1	1		R545	R-C	1/4W	82K-J		613Z823C11
1	1	1		R546	R-FUSE	1/4W	R22-K		614Z228A61
1	1	1		R547	R-M-CHIP	1/10W	4R7K-J	2125	613Z472C24
1	1	1		R548	R-M-CHIP	1/10W	2R2K-J	2125	613Z222C24
1	1	1		R549	R-M-CHIP	1/10W	4R7K-J	2125	613Z472C24
1	1	1		R550	R-M-CHIP	1/10W	10K-J	2125	613Z103C24
1	1	1		R551	R-M-CHIP	1/10W	100K-J	2125	613Z104C24
1	0	1		R552	R-M-CHIP	1/10W	1K-J	2125	613Z102C24
1	0	1		R553	R-M-CHIP	1/10W	1K-J	2125	613Z102C24
1	1	1		R554	R-C	1/4W	100-J		613Z101C11
1	1	1		R555	R-M-CHIP	1/10W	820-J	2125	613Z821C24
1	1	1		R556	R-M-CHIP	1/10W	22K-J	2125	613Z223C24
1	1	1		R557	R-M-CHIP	1/10W	5R6K-J	2125	613Z562C24
1	1	1		R558	R-C	1/4W	15K-J		613Z153C11
1	1	1		R559	R-M-CHIP	1/10W	36K-F	2125	613Z363C54
0	1	0		R560	R-C	1/4W	130K-J		613Z134C11
1	0	1		R560	R-C	1/4W	68K-J		613Z683C11
1	1	1		R561	R-M-CHIP	1/10W	220-J	2125	613Z221C24
1	1	1		R562	R-M-CHIP	1/10W	10K-J	2125	613Z103C24
1	1	1		R563	R-M-CHIP	1/10W	5R6K-J	2125	613Z562C24
1	1	1		R565	R-M-CHIP	1/10W	100-J	2125	613Z101C24

DWG. TITLE : ASSY-PWB-MAIN

GROUP 10: A705MT, 20: S705MT, 30: i70A

GROUP			REV.	REF.NO.	PART	DESCRIPTION	PART NO.
30	20	10					
1	1	1		R566	R-MB	2W R15-J	612Z158C37
1	1	1		R567	R-MB	5W 56-J	612Z560C57
1	1	1		R568	R-FUSE	1/4W 2R2-J	614Z229A61
1	1	1		R569	R-FUSE	1/4W 10-J	614Z100A61
1	0	1		R570	R-M-CHIP	1/10W 470-J 2125	613Z471C24
1	1	1		R571	R-M-CHIP	1/10W 240K-F 2125	613Z244C54
1	1	1		R572	R-M-CHIP	1/10W 120K-F 2125	613Z124C54
1	1	1		R573	R-C	1/2W 1K-J	613Z102C81
1	1	1		R574	R-C	1/4W 56K-J	613Z563C11
1	1	1		R801	R-M-CHIP	1/10W 4R7K-J 2125	613Z472C24
1	1	1		R802	R-C	1/4W 1K-J	613Z102C11
1	1	1		R803	R-C	1/4W 4R7K-J	613Z472C11
1	1	1		R804	R-C	1/4W 4R7K-J	613Z472C11
1	1	1		R805	R-M-CHIP	1/10W 4R7K-J 2125	613Z472C24
1	1	1		R806	R-C	1/4W 1K-J	613Z102C11
1	1	1		R807	R-M-CHIP	1/10W 4R7K-J 2125	613Z472C24
1	1	1		R808	R-M-CHIP	1/10W 4R7K-J 2125	613Z472C24
1	1	1		R809	R-M-CHIP	1/10W 4R7K-J 2125	613Z472C24
1	1	1		R810	R-C	1/4W 180-J	613Z181C11
1	1	1		R811	R-C	1/4W 180-J	613Z181C11
1	1	1		R814	R-C	1/4W 1K-J	613Z102C11
1	1	1		R815	R-C	1/4W 33-J	613Z330C11
1	1	1		R816	R-C	1/4W 33-J	613Z330C11
1	1	1		R825	R-C	1/4W 10K-J	613Z103C11
1	1	1		R826	R-C	1/4W 10K-J	613Z103C11
1	1	1		R827	R-M-CHIP	1/10W 10K-J 2125	613Z103C24
1	1	1		R829	R-M-CHIP	1/10W 10K-J 2125	613Z103C24
1	1	1		R830	R-M-CHIP	1/10W 10K-J 2125	613Z103C24
1	1	1		R831	R-M-CHIP	1/10W 4R7K-J 2125	613Z472C24
1	1	1		R832	R-M-CHIP	1/10W 4R7K-J 2125	613Z472C24
1	1	1		R833	R-M-CHIP	1/10W 4R7K-J 2125	613Z472C24
1	1	1		R834	R-M-CHIP	1/10W 33-J 2125	613Z330C24
1	1	1		R835	R-M-CHIP	1/10W 33-J 2125	613Z330C24
1	1	1		R836	R-C	1/4W 1K-J	613Z102C11
1	1	1		R837	R-C	1/4W 1K-J	613Z102C11
1	1	1		R838	R-C	1/4W 1K-J	613Z102C11
0	1	0		R839	R-M-CHIP	1/10W 4R7K-J 2125	613Z472C24
1	0	1		R840	R-M-CHIP	1/10W 4R7K-J 2125	613Z472C24
1	1	1		R841	R-M-CHIP	1/10W 1K-J 2125	613Z102C24
1	1	1		R842	R-M-CHIP	1/10W 33-J 2125	613Z330C24
1	1	1		R843	R-M-CHIP	1/10W 100-J 2125	613Z101C24
1	1	1		R901	R-C	1/2W 470K-J	613Z474C81
1	1	1		R903	R-MB	3W 33K-J	612Z333C47
1	1	1		R904	R-MB	1W 1R5K-J	612Z152C27
1	1	1		R905	R-MB	1W 1R5K-J	612Z152C27
1	1	1		R906	R-MB	1W R56-J	612Z568C27
1	1	1		R907	R-MB	1W R47-J	612Z478C27
1	1	1		R908	R-M-CHIP	1/10W 33-J 2125	613Z330C24
1	1	1		R909	R-M-CHIP	1/10W 22-J 2125	613Z220C24
1	1	1		R910	R-C	1/4W 22-J	613Z220C11
1	1	1		R911	R-MB	1/4W 4R7M-F	615Z475A31
1	1	1		R912	R-MB	1/4W 4R7M-F	615Z475A31
1	1	1		R913	R-M-CHIP	1/10W 680K-J 2125	613Z684C24
1	1	1		R914	R-M-CHIP	1/10W 220-J 2125	613Z221C24
1	1	1		R915	R-M-CHIP	1/10W 1K-J 2125	613Z102C24
1	1	1		R916	R-C	1/4W 100-J	613Z101C11
1	1	1		R917	R-C	1/4W 22-J	613Z220C11
1	1	1		R919	R-M-CHIP	1/10W 24K-J 2125	613Z243C24
1	1	1		R920	R-C	1/4W 110K-J	613Z114C11
1	1	1		R921	R-FUSE	1/4W 56-J	614Z560A61
1	1	1		R923	R-C	1/2W 2R2K-J	613Z222C81
1	1	1		R924	R-C	1/4W 47K-J	613Z473C11
1	1	1		R925	R-C	1/4W 47K-J	613Z473C11
1	1	1		R926	SO-COPPER-WIRE		990P003A1
1	1	1		R928	SO-COPPER-WIRE		990P003A1
1	1	1		R930	SO-COPPER-WIRE		990P003A1

DWG. TITLE : ASSY-PWB-MAIN

GROUP 10: A705MT, 20: S705MT, 30: i70A

GROUP			REV.	REF.NO.	PART	DESCRIPTION			PART NO.
30	20	10				1/10W	430-F	2125	
1	1	1		R932	R-M-CHIP	1/10W	430-F	2125	613Z431C54
1	1	1		R934	R-M-CHIP	1/10W	3R6K-F	2125	613Z362C54
1	1	1		R935	R-M-CHIP	1/10W	2R2K-J	2125	613Z222C24
1	1	1		R937	R-M-CHIP	1/10W	22-J	2125	613Z220C24
1	1	1		R938	R-M-CHIP	1/10W	10K-J	2125	613Z103C24
1	1	1		R939	SO-COPPER-WIRE				990P003A1
1	1	1		R940	R-M-CHIP	1/10W	82K-F	2125	613Z823C54
1	1	1		R941	R-M-CHIP	1/10W	3R9K-F	2125	613Z392C54
1	1	1		R942	R-M-CHIP	1/10W	39K-F	2125	613Z393C54
1	1	1		R943	R-M-CHIP	1/10W	820-J	2125	613Z821C24
1	1	1		R944	R-M-CHIP	1/10W	39K-F	2125	613Z393C54
1	1	1		R945	R-M-CHIP	1/10W	10K-J	2125	613Z103C24
1	1	1		R947	R-C	1/4W	390-J		613Z391C11
1	1	1		R948	R-MB	1/2W	4R7M-J		615Z475B41
1	1	1		R949	R-M-CHIP	1/10W	1M-F	2125	613Z105C54
1	1	1		R950	R-FUSE	1/4W	15-J		614Z150A61
1	1	1		R951	SO-COPPER-WIRE				990P003A1
1	1	1		R952	SO-COPPER-WIRE				990P003A1
1	1	1		R953	R-MB	1W	1R2K-J		612Z122C27
1	0	1		R954	R-M-CHIP	1/10W	1R5K-F	2125	613Z152C54
0	1	0		R954	R-M-CHIP	1/10W	2R2K-F	2125	613Z222C54
1	0	1		R955	R-M-CHIP	1/10W	5R6K-F	2125	613Z562C54
0	1	0		R955	R-M-CHIP	1/10W	8R2K-F	2125	613Z822C54
1	1	1		R957	R-MB	1/2W	4R7M-J		615Z475B41
1	1	1		R958	R-MB	1W	1K-J		612Z102C27
1	1	1		S501	SW		SK-23D07-V4		129Z034A10
1	1	1		S901	SW-POWER		KDC-A04		129Z036A10
4	4	4		S901	EYELET				679D022A20
1	1	1		T501	HDT				757Z001A30
2	2	2		T502	EYELET				679D022A20
1	0	1		T502	COIL-CHOKE		2100MH		751Z906A60
0	1	0		T502	COIL-CHOKE		2100MH		751Z906A70
1	1	1		T503	SWT				756Z007A30
5	5	5		T504	EYELET				679D022A20
0	1	0		T504	FBT				759Z005A70
1	0	1		T504	FBT				759Z005B60
5	5	5		T901	EYELET				679D022A20
1	1	1		T901	SWT				756Z014A10
0	4	4		T902	EYELET				679D022A20
0	1	1		T902	LINE-FILTER		TS15H3		753Z010A20
1	1	1		TH901	THERMISTOR		10		744Z001A20
1	0	1		VR501	VR		B-3K		620Z302A60
1	1	1		VR502	VR		B-100K		620Z104A50
1	1	1		VR503	VR		B-100K		620Z104A73
1	1	1		X801	X'TAL		12MHZ		780Z011A16
2	2	2			FUSE-CLIP		5.2+/-0.15*20-0.5MM		442Z002A13
1	1	1			SOCKET-IC		42PIN		448Z009A02
6	6	6			GT-PIN		DIA2.36		452D031A1
1	1	1			RADIATOR				590V097A01
2	2	2			RADIATOR				595D313A10
1	1	1			RADIATOR		OSH-2425/PR1724/790Z006-10		790Z006A10
1	1	1			RADIATOR		17FB44H/OSH-1744S/790Z012-20		790Z012A20
5	5	5			RADIATOR		23*41*1.2		790Z016A20
154	153	153			SO-COPPER-WIRE				990P003A1
1	1	1			PWB-MAIN				210R088B01

DWG. TITLE : ASSY-MONITOR

GROUP 10: A705MT, 20: S705MT, 30: i70A

GROUP			REV.	REF.NO.	PART	DESCRIPTION	PART NO.
30	20	10					
1	0	1		12	CRT	M41LRY31X21	251Z063A03
0	1	0		12	CRT	M41LRJ507XX408(F1)	251Z066A01
1	0	0		15	FRONT-CABINET		700R081A01
0	0	1		16	FRONT-CABINET		700R081A21
0	1	0		18	FRONT-CABINET		700R082A21
1	0	0		21	BACK-COVER		700R083A01
0	1	1		22	BACK-COVER		700R083A21
1	1	1		25	STAND-SUPPORT		770R030A01
1	1	1		26	STAND-BASE		770R024A02
1	0	1		28	LEAD-CONNECTOR		246Z008B01
1	0	1		29	LEAD-CONNECTOR		246Z009A01
2	2	2		30	LEAD-WIRE		246Z013A01
1	1	1		31	EARTH-WIRE		246Z007A01
1	0	0		33	COIL-DEGAUSSING		409Z045A01
0	0	1		34	COIL-DEGAUSSING		409Z046A01
0	1	0		36	COIL-DEGAUSSING		409Z048A01
2	2	2		37	FERRITE-CORE	KRCBC13/ZCAT1518/E1314MRC	755Z802E20
1	1	1		38	FERRITE-CORE	BP53RB/FSOB162RN/E1620MRT	755Z902E10
1	1	1		40	SCREW	STV-SEMS-W3*6MC-S	632Z421B06
1	1	1		41	SCREW	STV-SEMS-W3*10MC-S	632Z421B10
4	4	4		42	SCREW	PTHA-SEMS5*20MC-S	663Z003D20
2	2	2		43	SCREW	BTB4*45NI-S	631Z135C45
2	2	2		44	SCREW	BTB4*16MC-S	631Z121C16
2	2	2		45	SCREW	BTB-SEMS-W3*8MC-S	631Z421B08
1	1	1		49	CLAMPER	HV-1Q	540Z104A01
4	4	6		50	CABLE-TIES	GT-100M/TSL-100-M/YJ-100	540Z089A01
0	4	0		52	WASHER		683V016B03
1	1	1		53	SIGNAL-CABLE		242Z033A01
4	0	4		54	WASHER		683V016A06
0	0	#			ACETATE-TAPE	NO.570F (L=110mm) (ITC ADJ.)	890P306A10
#	#	0			ACETATE-TAPE	NO.570F (L=10mm) (ITC ADJ.)	890P306A10
#	#	#			SPOILER	A (ITC ADJ.)	890Z003A01
#	#	#			SPOILER	C (ITC ADJ.)	890Z003A03
2	2	2			SPOILER	E (ITC ADJ.)	890Z003A05

DWG. TITLE : SUB-MATERIAL

Q'TY	REV.	REF.NO.	PART	DESCRIPTION	PART NO.
#	AA	SILICONE-GUM	TSE3940/KE3490		090Z001A10
#	AB	SILICONE-GUM	TSE3940		090Z001A20
#	AC	SILICONE-GUM	TSE3941		090Z032A01
#	AD	SILICONE-GUM	KE3480		090Z018A01
#	AE	SILICONE-GUM	TSE3941		090Z032A02
#	AF	SILICONE-GUM	KE40RTV		090Z009A30
#	AH	SILICONE-GREASE	YG6260/G747		090Z007A10
#	AJ	SILICONE-GREASE	KS660		090Z027A01
#	AK	SILICONE-GREASE	G501		090Z016A01
#	AL	SILICONE-GREASE	TSK5370		090Z028A01
#	AM	BOND	LEICHLOCK-NO.3-C		090Z010A10
#	AP	BOND	DN297A		090Z012A10
#	AQ	BOND	DN297A		090Z012A20
#	AR	BOND	3609/348/MR-8121		090Z031A01
#	AS	BOND	EC3748-TC-Q		090Z014A10
#	AU	SOLDER-ROSIN	E-28RH60-B/RS3/X52		090Z019A01
#	AV	SOLDER-ROSIN	E-28RH60-B/RS3		090Z019A02
#	AW	SOLDER-ROSIN	E-28RH60-B/RS3		090Z019A03
#	AX	SOLDER-ROSIN	SE4-M952K		090Z030A02
#	AY	SOLDER-ROSIN	H63A/H63S/BAR63/37/63EN		090Z023A01
#	AZ	SOLDER-ROSIN	T6204/221CM5/PS130B		090Z030A01
#	BA	FLUX	CF330VH/130VS/TNF21V/ULF300VZ		090Z021A01
#	BC	DILUTION			090Z022A01
#	BE	CLEAN-COAT	TC-110M		090Z026A01
#	BG	STAPLE	TB18		811Z001A01
#	BJ	PAINT	30-10 (ITC ADJUSTMENTS)		090Z020A01
#	BK	PAINT	WHITE (ITC ADJUSTMENTS)		090Z029A01
#	BM	LABEL	TACK-TITLE-70-4IN-G		851Z001A04
#	BP	SUB-PARTS	JK-WIPER-150S		090Z033A01
#	BT	UL-TAPE	NO.303		830P100A10
#	BU	DF-TAPE	#575 (ITC ADJUSTMENTS)		890P329A10
#	BV	ACETATE-TAPE	NO.570F (ITC ADJUSTMENTS)		890P306A10
#	BY	TAPE	T222A		830Z011A01
#	CA	MAGNET	B-1030		890P302A10
#	CB	MAGNET	OP-B1F		890P326A10
#	CC	MAGNET	M-594(58854900) (ITC ADJUSTMENTS)		890Z008A01
#	CD	MAGNET	138D		890Z010A01
#	CE	ITC-PARTS	FERRITE-PIECE-A		890Z011A01

DWG. TITLE : ASSY-PWB-VIDEO

GROUP 10: A705MT / i70A, 20: S705MT

GROUP		REV.	REF.NO.	PART	DESCRIPTION	PART NO.
20	10					
1	1		11	SHIELD-VIDEO		590S144A01
1	1		15	LEAD-WIRE		246Z001A01
1	1		16	LEAD-WIRE		246Z011A01
1	1		20	CLAMPER	TK6-34	540Z103A01
1	1		26	SCREW	MP-SEMS-W3*8MC-S	630Z401B08
1	1		C201	C-E-NP	50V 3R3M-M	472Z339B63
1	1		C202	C-E	25V 47M-M	470Z470G43
1	1		C203	C-C-CHIP	25V F-R1M-Z 2125	411Z104B44
1	1		C205	C-E-NP	100V 1M-M	472Z109B83
1	1		C206	C-C-CHIP	25V F-R1M-Z 2125	411Z104B44
1	1		C207	C-C	500V E-R01M-P/Z	411Z103A03
1	1		C208	C-E	100V 1M-M	470Z109G83
1	1		C209	C-C-CHIP	25V F-R1M-Z 2125	411Z104B44
1	1		C212	C-C-CHIP	50V B-1000P-K 2125	411Z102B14
1	1		C219	C-C-CHIP	25V F-R1M-Z 2125	411Z104B44
1	1		C221	C-E-NP	50V 3R3M-M	472Z339B63
1	1		C222	C-E	25V 47M-M	470Z470G43
1	1		C223	C-C-CHIP	25V F-R1M-Z 2125	411Z104B44
1	1		C225	C-E-NP	100V 1M-M	472Z109B83
1	1		C226	C-C-CHIP	25V F-R1M-Z 2125	411Z104B44
1	1		C227	C-C	500V E-R01M-P/Z	411Z103A03
1	1		C228	C-E	100V 1M-M	460Z109B83
1	1		C229	C-C-CHIP	25V F-R1M-Z 2125	411Z104B44
1	1		C241	C-E-NP	50V 3R3M-M	472Z339B63
1	1		C242	C-E	25V 47M-M	470Z470G43
1	1		C243	C-C-CHIP	25V F-R1M-Z 2125	411Z104B44
1	1		C245	C-E-NP	100V 1M-M	472Z109B83
1	1		C246	C-C-CHIP	25V F-R1M-Z 2125	411Z104B44
1	1		C247	C-C	500V E-R01M-P/Z	411Z103A03
1	1		C248	C-E	100V 1M-M	460Z109B83
1	1		C249	C-C-CHIP	25V F-R1M-Z 2125	411Z104B44
1	1		C261	C-C-CHIP	25V F-R1M-Z 2125	411Z104B44
1	1		C262	C-E	25V 47M-M	470Z470G43
1	1		C263	C-C-CHIP	25V F-R1M-Z 2125	411Z104B44
1	1		C264	C-E	25V 100M-M	470Z101G43
1	1		C265	C-C	500V E-R01M-P/Z	411Z103A03
1	1		C266	C-E	100V 10M-M	470Z100G83
1	1		C267	C-E-NP	100V 1M-M	472Z109B83
1	0		C268	C-C-CHIP	25V F-R1M-Z 2125	411Z104B44
1	1		C269	C-C-CHIP	25V F-R1M-Z 2125	411Z104B44
1	1		C270	C-MF	50/100V 4700P-J	420Z472B43
1	1		C271	C-C-CHIP	25V F-R1M-Z 2125	411Z104B44
1	1		C272	C-E	50V 1M-M	460Z109B63
1	1		C273	C-E	25V 100M-M	460Z101B43
1	1		C274	C-C-CHIP	25V F-R1M-Z 2125	411Z104B44
1	1		C275	C-C-CHIP	25V F-R1M-Z 2125	411Z104B44
1	1		C276	C-E	25V 100M-M	460Z101B43
1	1		C277	C-C-CHIP	50V CH-220P-J 2125	410Z221B14
1	1		C278	C-C	500V SL-120P-J	410Z121B43
1	1		C279	C-C-CHIP	50V B-1000P-K 2125	411Z102B14
1	1		C280	C-E	25V 100M-M	460Z101B43
1	1		C281	C-C-CHIP	25V F-R1M-Z 2125	411Z104B44
1	1		C282	C-E	25V 100M-M	460Z101B43
0	1		C283	C-C-CHIP	25V F-R1M-Z 2125	411Z104B44
0	1		C284	C-E-NP	25V 10M-M	462Z100B43
1	1		C285	C-E-NP	25V 10M-M	462Z100B43
1	1		C286	C-C-CHIP	25V F-R1M-Z 2125	411Z104B44
1	1		C287	C-C-CHIP	25V F-R1M-Z 2125	411Z104B44
1	1		C288	C-C	500V E-R01M-P/Z	411Z103A03
1	1		C289	C-E	100V 10M-M	460Z100B83
1	1		C290	C-C	500V E-R01M-P/Z	411Z103A03
1	1		C291	C-C	2KV B-3300P-K	413Z332B46
1	1		C292	C-C-CHIP	25V F-R1M-Z 2125	411Z104B44
1	1		C293	C-C-CHIP	25V F-R1M-Z 2125	411Z104B44
1	1		C294	C-C-CHIP	25V F-R1M-Z 2125	411Z104B44

DWG. TITLE : ASSY-PWB-VIDEO

GROUP 10: A705MT / i70A, 20: S705MT

GROUP		REV.	REF.NO.	PART	DESCRIPTION			PART NO.
20	10							
1	1		C295	C-C-CHIP	25V	F-R1M-Z	2125	411Z104B44
1	1		C297	C-C-CHIP	50V	B-1000P-K	2125	411Z102B14
1	1		C298	C-C	500V	E-R01M-P/Z		411Z103A03
1	1		C299	C-E	100V	100M-M		470Z101G83
1	0		CN201	SOCKET-CRT	ISDW36S-L			449Z005A20
0	1		CN202	SOCKET-CRT	ISDW02S-L			449Z005A10
1	1		D201	D	1N4148/ISS133/ISS120			742Z001A21
1	1		D202	D	1N4148/ISS133/ISS120			742Z001A21
1	1		D205	D	1SS83			264P067A10
1	1		D221	D	1N4148/ISS133/ISS120			742Z001A21
1	1		D222	D	1N4148/ISS133/ISS120			742Z001A21
1	1		D225	D	1SS83			264P067A10
1	1		D241	D	1N4148/ISS133/ISS120			742Z001A21
1	1		D242	D	1N4148/ISS133/ISS120			742Z001A21
1	1		D245	D	1SS83			264P067A10
1	1		D261	D	1N4148/ISS133/ISS120			742Z001A21
1	1		D262	D	1N4148/ISS133/ISS120			742Z001A21
1	1		D264	ZD	MTZ-J4.7B/HZ5B1			742Z406A61
1	1		D265	D	1N4148/ISS133/ISS120			742Z001A21
1	1		IC201	IC	M52743BSP			741Z410A30
1	1		IC202	IC	M35047-057SP			741Z059A10
1	1		IC203	IC	LM2415T			741Z411A47
1	1		IC204	IC	324			741Z207A30
1	1		IC205	IC	LA6510			741Z217A10
1	1		IC206	IC	7805			741Z501A55
1	1		J31	R-M-CHIP	1/10W ZERO	2125		613Z999B24
1	1		J52	R-M-CHIP	1/10W ZERO	2125		613Z999B24
1	1		J53	R-M-CHIP	1/10W ZERO	2125		613Z999B24
1	1		J54	SO-COPPER-WIRE				990P003A1
1	1		J55	R-M-CHIP	1/10W ZERO	2125		613Z999B24
1	1		J56	SO-COPPER-WIRE				990P003A1
1	1		J57	R-M-CHIP	1/10W ZERO	2125		613Z999B24
1	1		J58	SO-COPPER-WIRE				990P003A1
1	1		J59	SO-COPPER-WIRE				990P003A1
1	1		J60	SO-COPPER-WIRE				990P003A1
1	1		J61	R-M-CHIP	1/10W ZERO	2125		613Z999B24
1	1		L202	COIL-CHOKE	R22MH			750Z003A11
1	1		L203	FILTER	TH18103MBS			752Z005B13
1	1		L204	FILTER-CHIP	NFM2012P13C105F			752Z016A14
1	1		L205	FILTER-CHIP	NFM2012P13C105F			752Z016A14
1	1		L222	COIL-CHOKE	R22MH			750Z003A11
1	1		L242	COIL-CHOKE	R22MH			750Z003A11
1	1		L261	COIL-CHOKE	100MH			750Z602A21
1	1		L262	COIL-CHOKE	22MH			750Z602A11
1	1		L263	COIL-CHOKE	22MH			750Z602A11
1	1		Q201	TR	BF422/HBF422			740Z163A23
1	1		Q202	TR	BF423/HBF423			740Z176A13
1	1		Q221	TR	BF422/HBF422			740Z163A23
1	1		Q222	TR	BF423/HBF423			740Z176A13
1	1		Q241	TR	BF422/HBF422			740Z163A23
1	1		Q242	TR	BF423/HBF423			740Z176A13
1	1		Q262	TR-CHIP	BT1815/2SC2412/KTC3875/2PD601			740Z151A34
1	1		Q263	TR-CHIP	KRC103/DTC124/RN1403/PDTC124			740Z654A34
1	1		Q264	TR-CHIP	BT1815/2SC2412/KTC3875/2PD601			740Z151A34
1	1		R201	R-M-CHIP	1/10W 75-F	2125		613Z750C54
1	1		R202	R-M-CHIP	1/10W 1K-J	2125		613Z102C24
1	1		R203	R-C	1/4W 100-J			613Z101C11
1	1		R205	R-M-CHIP	1/10W 100-J	2125		613Z101C24
1	1		R206	R-C	1/2W 100-J			613Z101C81
1	1		R207	R-M-CHIP	1/10W 4R7K-J	2125		613Z472C24
1	1		R208	R-M-CHIP	1/10W 24K-J	2125		613Z243C24
1	1		R209	R-M-CHIP	1/10W 33K-J	2125		613Z333C24
1	1		R210	R-M-CHIP	1/10W 5R6K-J	2125		613Z562C24
1	1		R211	R-M-CHIP	1/10W 100K-J	2125		613Z104C24
1	1		R212	R-M-CHIP	1/10W 100K-J	2125		613Z104C24

DWG. TITLE : ASSY-PWB-VIDEO

GROUP 10: A705MT / i70A, 20: S705MT

GROUP		REV.	REF.NO.	PART	DESCRIPTION	PART NO.
20	10					
1	1		R213	R-M-CHIP	1/10W 330K-J 2125	613Z334C24
1	1		R214	R-M-CHIP	1/10W 3R3K-J 2125	613Z332C24
1	1		R215	SO-COPPER-WIRE		990P003A1
1	1		R216	R-M-CHIP	1/10W 2R2K-J 2125	613Z222C24
1	1		R217	R-M-CHIP	1/10W 3R3K-J 2125	613Z332C24
1	1		R218	R-M-CHIP	1/8W ZERO 3216	613Z999B34
1	1		R221	R-M-CHIP	1/10W 75-F 2125	613Z750C54
1	1		R222	R-M-CHIP	1/10W 1K-J 2125	613Z102C24
1	1		R223	R-C	1/4W 100-J	613Z101C11
1	1		R225	R-M-CHIP	1/10W 100-J 2125	613Z101C24
1	1		R226	R-C	1/2W 100-J	613Z101C81
1	1		R227	R-M-CHIP	1/10W 4R7K-J 2125	613Z472C24
1	1		R228	R-M-CHIP	1/10W 24K-J 2125	613Z243C24
1	1		R229	R-M-CHIP	1/10W 33K-J 2125	613Z333C24
1	1		R230	R-M-CHIP	1/10W 5R6K-J 2125	613Z562C24
1	1		R231	R-M-CHIP	1/10W 100K-J 2125	613Z104C24
1	1		R232	R-M-CHIP	1/10W 100K-J 2125	613Z104C24
1	1		R233	R-M-CHIP	1/10W 330K-J 2125	613Z334C24
1	1		R234	R-M-CHIP	1/10W 33-J 2125	613Z330C24
1	1		R235	R-M-CHIP	1/10W 33-J 2125	613Z330C24
1	1		R236	R-M-CHIP	1/10W 33-J 2125	613Z330C24
1	1		R241	R-M-CHIP	1/10W 75-F 2125	613Z750C54
1	1		R242	R-M-CHIP	1/10W 1K-J 2125	613Z102C24
1	1		R243	R-C	1/4W 100-J	613Z101C11
1	1		R245	R-M-CHIP	1/10W 100-J 2125	613Z101C24
1	1		R246	R-C	1/2W 100-J	613Z101C81
1	1		R247	R-M-CHIP	1/10W 4R7K-J 2125	613Z472C24
1	1		R248	R-M-CHIP	1/10W 24K-J 2125	613Z243C24
1	1		R249	R-M-CHIP	1/10W 33K-J 2125	613Z333C24
1	1		R250	R-M-CHIP	1/10W 5R6K-J 2125	613Z562C24
1	1		R251	R-M-CHIP	1/10W 100K-J 2125	613Z104C24
1	1		R252	R-M-CHIP	1/10W 100K-J 2125	613Z104C24
1	1		R253	R-M-CHIP	1/10W 330K-J 2125	613Z334C24
1	1		R261	R-M-CHIP	1/10W 100-J 2125	613Z101C24
1	1		R262	R-M-CHIP	1/10W 12K-F 2125	613Z123C54
1	1		R263	R-M-CHIP	1/10W 1R2K-J 2125	613Z122C24
1	1		R264	R-M-CHIP	1/10W 1K-J 2125	613Z102C24
1	1		R265	R-M-CHIP	1/10W 2R2K-J 2125	613Z222C24
1	1		R266	R-M-CHIP	1/10W 2R4K-J 2125	613Z242C24
1	1		R267	R-M-CHIP	1/10W 33-J 2125	613Z330C24
1	1		R268	R-M-CHIP	1/10W 33-J 2125	613Z330C24
1	1		R269	R-M-CHIP	1/10W 1K-J 2125	613Z102C24
1	1		R270	R-M-CHIP	1/10W 33-J 2125	613Z330C24
1	1		R271	R-M-CHIP	1/10W 33-J 2125	613Z330C24
1	1		R272	R-M-CHIP	1/10W 30K-J 2125	613Z303C24
1	1		R273	R-M-CHIP	1/10W 33K-J 2125	613Z333C24
1	1		R274	R-M-CHIP	1/10W 6R8K-J 2125	613Z682C24
1	1		R275	R-C	1/4W 10K-J	613Z103C11
1	1		R276	R-M-CHIP	1/10W 1K-J 2125	613Z102C24
1	1		R277	R-M-CHIP	1/10W 2R2K-J 2125	613Z222C24
1	1		R278	R-M-CHIP	1/10W 10K-J 2125	613Z103C24
1	1		R279	R-C	1/4W 10K-J	613Z103C11
1	1		R281	R-M-CHIP	1/10W 10K-J 2125	613Z103C24
1	1		R282	R-MB	1W 100-J	612Z101C27
0	1		R283	R-M-CHIP	1/10W 10K-J 2125	613Z103C24
1	1		R284	R-M-CHIP	1/10W 10K-J 2125	613Z103C24
0	1		R285	R-M-CHIP	1/10W 2R2-J 2125	613Z229C24
0	1		R286	R-C	1/4W 5R6-J	613Z569C11
0	1		R287	R-M-CHIP	1/10W 22K-J 2125	613Z223C24
0	1		R288	R-MB	1W 68-J	612Z680C27
1	1		R289	R-MB	1W 47-J	612Z470C27
1	1		R290	R-M-CHIP	1/10W 22K-J 2125	613Z223C24
1	1		R291	R-C	1/4W 5R6-J	613Z569C11
1	1		R292	R-M-CHIP	1/10W 2R2-J 2125	613Z229C24
1	1		R293	R-M-CHIP	1/10W 22K-F 2125	613Z223C54

DWG. TITLE : ASSY-PWB-VIDEO

GROUP 10: A705MT / i70A, 20: S705MT

GROUP		REV.	REF.NO.	PART	DESCRIPTION	PART NO.
20	10					
1	1		R294	R-M-CHIP	1/10W 33K-F 2125	613Z333C54
1	1		R295	R-M-CHIP	1/10W 2R2K-F 2125	613Z222C54
1	1		R296	R-C	1/2W 22K-J	613Z223C81
1	1		R297	R-C	1/2W 10K-J	613Z103C81
1	1		SG201	NEON-LAMP	DSP-201M/YP-201M	789Z001A71
1	1		SG221	NEON-LAMP	DSP-201M/YP-201M	789Z001A71
1	1		SG241	NEON-LAMP	DSP-201M/YP-201M	789Z001A71
1	1		G2	CONNECTOR	A3963WV2-2P	452Z030A10
1	1		P201	CONNECTOR	A2501WV2-6P	452Z029E10
1	1		P202	CONNECTOR	A2501WV2-11P	452Z029K10
1	1		P203	CONNECTOR	A2501WV2-4P	452Z029C10
0	1		P204	CONNECTOR	A2502WV2-3P	452Z033B10
1	1		P205	CONNECTOR	A2502WV2-3P	452Z033B10
1	1		P212	CONNECTOR	A2501WV2-2P	452Z029A10
1	1			RADIATOR	35*84.5*15	790Z024A10
48	48			SO-COPPER-WIRE		990P003A1
1	1			PWB-VIDEO		210R089B01